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<211> 572

<212> DNA

<213> Homo sapiens

<400> 5657

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<211> 577

<212> DNA

<213> Homo sapiens

<400> 5658

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<211> 530

<212> DNA

<213> Homo sapiens

<400> 5659

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<210> 5660

<211> 573

<212> DNA

<213> Homo sapiens

<400> 5660

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gcacccttct aaagggcttt caaggatcat cctaatagcc cattttacct atgtactgac  180
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taccaaagtc gatcagtcctc agtatgattc anggatatga ttttcaatta gcaaattggtg  480
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<210> 5661

<211> 575

<212> DNA

<213> Homo sapiens

<400> 5661

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<210> 5662

<211> 483

<212> DNA

<213> Homo sapiens

<400> 5662

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<210> 5663

<211> 586

<212> DNA

<213> Homo sapiens

<400> 5663

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tcacaaatta aaaatatatt tctccatgtg gtaaaagtgc tttcaatccc attaaagggc 180
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 taatcccaga aattccttgt ttctggtctg tggggatggt cagatctgcc caccactctt 480
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<210> 5664

<211> 587

<212> DNA

<213> Homo sapiens

<400> 5664

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 aaccttttga attcaggacc ctgcctatct actccatgga gcagatcttt ggattctctt 480
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<210> 5665

<211> 572

<212> DNA

<213> Homo sapiens

<400> 5665

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actgcaacag ggggattcca gctgtatgtg ttcagggtta ctgtgtcaag acattccaac 360
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ggaggggacc tgggatacat agcantgctg agcatcctta aaaangtttt tctaactgga 480
gccattggtc tttggggnea acangtntg acatcccttg gggcaccttc cccttgactt 540
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<210> 5666

<211> 586

<212> DNA

<213> Homo sapiens

<400> 5666

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ttcatgcaat gtganggtcc attgcaaata ttttgaactg agtttggaca aagagtttna 540

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586

<210> 5667

<211> 530

<212> DNA

<213> Homo sapiens

<400> 5667

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<210> 5668

<211> 470

<212> DNA

<213> Homo sapiens

<400> 5668

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<210> 5669

<211> 586

<212> DNA

<213> Homo sapiens

<400> 5669

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 ctcaagcaag tcaagttgag ggactatcct gggagctatt tttccgngcc ttggttttnc 540
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<210> 5670

<211> 572

<212> DNA

<213> Homo sapiens

<400> 5670

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<210> 5671

<211> 492

<212> DNA

<213> Homo sapiens

<400> 5671

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<210> 5672

<211> 604

<212> DNA

<213> Homo sapiens

<400> 5672

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<210> 5673

<211> 614

<212> DNA

<213> Homo sapiens

<400> 5673

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<210> 5674

<211> 601

<212> DNA

<213> Homo sapiens

<400> 5674

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<210> 5675

<211> 533

<212> DNA

<213> Homo sapiens

<400> 5675

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<210> 5676

<211> 608

<212> DNA

<213> Homo sapiens

<400> 5676

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<210> 5677

<211> 610

<212> DNA

<213> Homo sapiens

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<210> 5678

<211> 602

<212> DNA

<213> Homo sapiens

<400> 5678

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<210> 5679

<211> 605

<212> DNA

<213> Homo sapiens

<400> 5679

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 ggactacagg catctgccac caagcccgt aatttttgta taaaatacaa aaattttaag 180
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 tgcacagccc ccagcacagg gaaacggcag caagtgtgtg tgaaggcagg aatggcgctg 420
 ggatgccctg ccatggaacc gctggctcac agcagactca cgcttgtggg cagtgttgc 480
 gacggacggg actttgacgt ggctcaaggc aagttcttnt caantncaag aaggaaaagg 540
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 gcatg 605

<210> 5680

<211> 357

<212> DNA

<213> Homo sapiens

<400> 5680

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 ggagaggata gtcacgataa atcaangttt cattcttttc ctctctttc ttagctcgnc 300
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<210> 5681

<211> 596

<212> DNA

<213> Homo sapiens

<400> 5681

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 ctgggcttat tttaaagaac tatttgtagc tcagattggt tttcctatgg ctaaaataag 180
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 gactgagggg aatatgctgg acttacatgg ccatggaacc ttccttcttc tagaaaccca 540
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<210> 5682

<211> 598

<212> DNA

<213> Homo sapiens

<400> 5682

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cangaagttg tccagggact gncacatgct cgcttctnac catgggcagg acggtggcaa 480
caagggggtc cacgggccgg ccttttttaa ggggcagaac aaggggagtg aanccgggcc 540
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<210> 5683

<211> 588

<212> DNA

<213> Homo sapiens

<400> 5683

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agtgaataaata tggatgatag gtgggcaatg gtgtctgtgc agagtcccct cataggaggg 180
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acccagctag agagaggccc tgggatacga gcaaagaggt tgcagngtct anatgatattc 420
aagggtcng tttaccaa atgttgcttg aaaccagcct gagtgcctnt cttgccccaa 480
aaggagatc tcantgaana cttnggtnc caagccaggg cctcaagctt aatttaaagc 540
cccccttctc ttcaccacc agcccannc aggaccttct ttcncca 588

<210> 5684

<211> 585

<212> DNA

<213> Homo sapiens

<400> 5684

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 tctgattgtc caaatcatta aaatatggat gattcagngc cattttgcca gaaattcggt 180
 nggctggatc atagattaac attttctggg agaaaaaaga aaaagagata tttatttagg 240
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 tctcctcccc tacatttcac tcttgaggtc tagaataact tactctgtaa atcatagata 420
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 taaactggga cccaaatnln ggaaggang ctagttaata tattacattg ggaataaacg 540
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<210> 5685

<211> 602

<212> DNA

<213> Homo sapiens

<400> 5685

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gttgccctggt gtccaatgcc ttccaaacag tttttcttta aatatatttn ggtcattttt 480
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 tt 602

<210> 5686

<211> 597

<212> DNA

<213> Homo sapiens

<400> 5686

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 cgcgcacttt aatcatgac cactccatcg ttctctccag gacaaaaaag aagggcagga 180
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<210> 5687

<211> 596

<212> DNA

<213> Homo sapiens

<400> 5687

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gaacttttat aaatcagctt ttagcaatgt agcagttagg tgggggaaag gggaggggag 120
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<210> 5688

<211> 585

<212> DNA

<213> Homo sapiens

<400> 5688

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 tgnngctatth tttctttcag tggatgattg cgctttaaaa cagaaaacag agcttacttg 180
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 gcagtagaca aagcaagact agagcggttg tccagagcca gttctcccat ggaggcaggt 360
 ggtagtacct ctggaagaag tgtggaaagc tggcttccac cccagggaat attactagaa 420
 catttctgga gagaggaata ggcagtagaa ccactgaact gcaaaggaat ctngngactt 480
 ggaaaataaa gtgaacttct ggttttctta accaaacttt atagcatgga ttaagncttg 540
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<210> 5689

<211> 586

<212> DNA

<213> Homo sapiens

<400> 5689

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tctttatttg cacctcgagc cagcagcaag tctaccacct cctgacgtcc accagaacat  180
gccaatgaaa gcgagagtat cttagtctgt tcagactgtg cttctatata tccaccttta  240
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tcttcatgac cacctgcaca agctagtgtt aatgctgtgt catgattgct ctcaagtatg  420
tgcatcaatg tcaactgaag gatacacagg aggcatcgat tgggaagcca cattgnttgt  480
agctgcgaac aggattcaag gtggaaagac ctttggggtc tgagaagaac tggttggaac  540
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<210> 5690

<211> 371

<212> DNA

<213> Homo sapiens

<400> 5690

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caagctctgc ctcccgggtt cagccattc tctgcctna gcctcccng tagctgggac  120
tacaggcgcg caccaccatg cccggctaata tttngaattt ttagtanaga cggaggttgc  180
aangagctga natcgggcca ctgcactcca acctggatca cagagaanaac tgnctcaaaa  240
aacaacaaaa aaaccaggna tgctgaatag caagtatgta ggtatccact gaagtactcc  300
naanattttt tcaaagatga gcatgatttt attatagaca atttaaaaat atngncangc  360
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<210> 5691

<211> 588

<212> DNA

<213> Homo sapiens

<400> 5691

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 gcagagtict gattacttaa cacagtgaat ttgcaattcc aagttacaga gacattcaca 180
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<210> 5692

<211> 585

<212> DNA

<213> Homo sapiens

<400> 5692

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 atggggaaaa gcaaacttca ccaaactag agtaccacaa ttcaagtgtc cttttccaca 180
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gagactgtac agtgggttctc aaagtgtgac cccgaccagc agtgagagca tcattctggga 420
 acttggttaa aatgtaaatt attaggtcct accttaaacc tcctaaatca caagcttgct 480
 ttaacaagca acctgcactt taaaacaaac tctctaggtg atctgggtgca tgctaaagtt 540
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<210> 5693

<211> 590

<212> DNA

<213> Homo sapiens

<400> 5693

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 attcttgatc aggaccacca atgtcatagg gtgcaatata tacaataggt agtctcacag 120
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 aaatgccttg taaggattct tagtaaatgc agcagggcaa ttgctataga ccagtgcata 420
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<210> 5694

<211> 584

<212> DNA

<213> Homo sapiens

<400> 5694

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aatttacgcc aacatittac aaccctttca aagcatttgc tattgaaaga aggcattcag 180
tgccaaaatt ctgacattcc agtaaataatt actacccaaa gaaaagaaaa ttcttaattt 240
caagatcaaa gtgccaatgc ttttcttttc taaataagag taaagaaaaa gaaggccctt 300
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<210> 5695

<211> 578

<212> DNA

<213> Homo sapiens

<400> 5695

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agatggcccc aagtgaaatt cctaccctgt acttctntgcc cttcttttca gacaaaagga 540
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<210> 5696

<211> 544

<212> DNA

<213> Homo sapiens

<400> 5696

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tggacagatg ggtggatgga ggaatggatg gacagacaga caaagggact gaagctgnac  480
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<210> 5697

<211> 566

<212> DNA

<213> Homo sapiens

<400> 5697

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tcctctgacg ccatacctc ctcctggccc cacccaaggg ctcgacacaa gccccaaagg  180
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<210> 5698

<211> 499

<212> DNA

<213> Homo sapiens

<400> 5698

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caaaaagatt taacgagctt tgctgcaa at gctggtgcca tttggcacat cacagggact 180
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<210> 5699

<211> 601

<212> DNA

<213> Homo sapiens

<400> 5699

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cacaaaagca aacttgagac accctcctta tcgctactgc actatgaaat atgaccaaac 180
ctttcattgn cattaaatac cagaaatagt aacattttct gttttgcaaa ctttagtggg 240

gaaggacaac taataagaca ggtattggac cagaaatgta cagataagaa ctttgatttc 300
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 aaggacaaaa tatgtgggta ctgagccatt actatgatnc acatacccca gaaaggattt 420
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 ttgattantt taaaggataa aataaaataa ncccttgggt anccaagttt gggccaaaaa 540
 aagaagttca gantttggaa ggaccagact ntgggtaaaa ccgtctaaaa tcagggtccc 600
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<210> 5700

<211> 602

<212> DNA

<213> Homo sapiens

<400> 5700

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 tacaggcacc cgccgccatg cccggctaatt ttttgcatth ttagtagaga tgggattttg 180
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 tggaaagaag gttggatacc taaaaaatgg gactggaaca tcttttacct ggtgggactg 540
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<210> 5701

<211> 600

<212> DNA

<213> Homo sapiens

<400> 5701

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gaacaatatt aaacaaaaat tatttcctgt ggtaacagag attacatcct atgggacagg  180
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tctgcagaaa ggcttttcag tagaagtttc agaaagtgtg aaggccctaa gataggaaag  420
ggtctaattg atgagcactg gcctacgaag gatgtgtggc catcagcatt agcccntccc  480
aaaatcaaat ttaaggagaa ttagacttta ntttaaattt tgcaaccaca ccacaagcat  540
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<210> 5702

<211> 474

<212> DNA

<213> Homo sapiens

<400> 5702

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gaactgtnc aagagttattt attttcctt aatctcaaag ctatttttag taatacaaaa   60
aagccatatt aacatttttt tccgttagaa aacatgatgt acaaaacttt ggatgaaaag  120
atacgtcaaa tttcatttaa tcaactggag gaaaatccac caactccatc aataccaccc  180
aaagngtttt aggcagngaa taaaatcaaa ataatgcac ttaataaatt ccagctgtta  240
aaagaacaaa cttagcaata tataacagtt tgctaacagg atttttgact attcactttg  300
ggagttattt ttaaaaatcc acttttttac tgagtcttac tacataccag gcactgtact  360
tgggccatct anggtacta agaaaaccgt tggttaagat nggaangacc cttaaatacag  420
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<210> 5703

<211> 576

<212> DNA

<213> Homo sapiens

<400> 5703

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taacaggctc ttgccacagg gccagctaa tttctgtatt tttagtagag acgggggttc  180
accatgttgg ccaggctggg cttgaactcc tgacctcagg tgatccaccc accttcacct  240
cccaaagtgc tgggattaca ggcatgagcc actgggcccc gcctaaatag tatatatatt  300
taaatactct ttcagaaaag gccgcttata cagaactatt ctgaagacag taaagaactg  360
ctgaagagga agaaaaaact ggctgtgcaa tagcagaacc tcctccgaac caaagcctct  420
ggagaagaac cagntgcagt ggaggcntta ctcacccatg ttaaaagcac cggaaccgat  480
taanaatccc aagcttggcn aggantggaa cttggaaaag ggnccctagg ngccnttgga  540
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<210> 5704

<211> 584

<212> DNA

<213> Homo sapiens

<400> 5704

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tatacttccc tttaaaatat cctccctcat gcccacaccg cttagaatcc aatagccact  120
cctaacaagg gcctaggagg aactcatcct acatagccaa gaaaggggta cagcttgagg  180
aatgggcata tggctcagga agcagcacca gctgataaga actttcccca aagcagctct  240
gtttggcttg tgagtctcct ttccctgccc tggctctggac tccccagct gtgtccacc  300
cctggaattc ccctgttcct tatgtggcct gatcttgaga gttaaaatca taattaacat  360

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ctttacagct ggagagctga gagatcactg gtctcaagcc attctccac cacaacttta 420
tagatgagga actgnatccc aaggttcccc agctcatatn ggaaagagcc aaaaatttng 480
gggtcaaact cttcaaatca ganatctttc taagganaan cctccttaac ctccagnaag 540
ccaccatac tggcttcaac tccnaacaa ctggggccag cngg 584

<210> 5705

<211> 598

<212> DNA

<213> Homo sapiens

<400> 5705

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agtgaagcc tctaaaactg cccccctccc cagccaaact ctatgatcaa gatagtaa 180
gaaaaacaat attgtgggag gggtagttag gtttataaga tataaaaaag taaaatat 240
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tgacaaactc agcattccgc tggaggctat atgatcaaac agcaaactgt ttatcatgaa 360
tgcaggatgt gggcaaactc aactggcct gccaccattg ccacagttn ccatnttacca 420
gggnttttcc ctggacaagg tccttnggac ttaactggga ctgcntggga aggatttccc 480
cttcttgatc cccggttttc cctggnggga tccntaagg ttaccaggna ggccttttt 540
aangaacctt ttacctttt tcaggcctaa gggntttntt ccgggggggt ctgggaag 598

<210> 5706

<211> 462

<212> DNA

<213> Homo sapiens

<400> 5706

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gcacgatctt ggcccactgt aacctccacc tgccagggtc aagtgattct cctgcctcag 120
 cctcctgagt agctaaggga ttacaggcgt gagccacat gtcaagctaa tttttttgta 180
 tttttagtag agacgggggt tcacatgtt ggccaggctg gtctcgaatt cctggcctca 240
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 tggctgagcc agctgcttct gactcaaaga aaggagccna cagtaggcca aggaaagaac 360
 acaagcccggt gaatggggcc ctccacaag aatactgnca gaacccttcn ggctttccac 420
 tacattatgc tnaaantngg atgggantgg tangaaccaa aa 462

<210> 5707

<211> 566

<212> DNA

<213> Homo sapiens

<400> 5707

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 gtagcaggga ttagaggctt ccaccaccac acccagctaa tttttgtatt tttagtagag 180
 atagtgtttc tccatgttgg ccaggctggt ctcccactcc tgacctcagg tgatccgccc 240
 gcctcagcct tccaaagtgc tgggattaca ggcacgaacc accgcgaccg caccagcca 300
 ggatttcttg atacactaca aaaaggggat gtcaacttat gaataaaagg gaatggggct 360
 tttggtttca gattaggcca gacagggtga tgatgtcagg aggtgtccat gaagagttaa 420
 atggaatfff acatatctta ttgnatttaa tatgtcaca tattctattg nattaatff 480
 tcacgacaat caggtaagaa ttaggataag tantggatct tcattcaca atgatacccg 540
 aanttcagag angngaaatt ccttgc 566

<210> 5708

<211> 565

<212> DNA

<213> Homo sapiens

<400> 5708

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 ccaaagcagc tgtgatatat cttgcaaaga aaagagctaa aatttctgtt gataataaag 180
 ttgtttgtaa actgatgcta aaatatattc caattgtctt atttttagtg ctggtatgat 240
 ttactaactt ctgatagttt tatatgcatt gaataatgtg atattcttaa aatancagat 300
 ttattcaaga atatttaaca tcaaagttgg gctttcaaat aaatatttta cctcgggttag 360
 tttttgaaca aatgttgcag gcagaagagt ggacttgatt cctttagata aataaacagc 420
 ctacttaatt tccatgcaaa taacaactta aacattattc catgctcaac agtaatgtgg 480
 gggaaaggtt aaaaaggcag gtncatcatga tggggaactt ccttacatat atccttaggc 540
 agattctttc tttaccgnaa ggtct 565

<210> 5709

<211> 558

<212> DNA

<213> Homo sapiens

<400> 5709

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 acataacatt caactggctt tttctacca gaatgtctga tgctaatttg gaagaatttc 120
 acgtatattc tatttgccga atgtacagca cattcttttc acttcagcac tgacaatcca 180
 aagtgtttca ttaaagaaac aggactttta ctttgtttca agttgtttta tggtagcagc 240
 catctgatta gtcttctctt ccaagcgact gtttagttca ctttctgtt ttactcctaa 300
 gtctgaactc tgcagcttaa aggcaagttc atgcttgaga gctctgaggt catccaactg 360
 ctgccgaaga gataccaggg catcctgctt ctcacagaca tccttctcca gcattctcat 420
 agccaattcc atctcctgcc ttatgctgat ctgcactcc agttctttct caacatccaa 480
 tcggaattgg ggctcttctt ttaaagcttc ttggtttact taangctggc ctttgnagt 540
 ctatcttgct tgggancc 558

<210> 5710

<211> 559

<212> DNA

<213> Homo sapiens

<400> 5710

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gccaggcacc actctcaatg gtttgactca ctgtactctg cacaatcacc cattttccag 120
tgaaggaaat ggaggcacca agggtaaagt agccagcaca agtcagacct catggcgggg 180
ccaaggcatt ctggctccaa aatcccgaat caaaaagcag aaggcacaaa aattaaaaaac 240
aaagaaacat cacacacgga aggaggagag gccaaagatt actccgaggg attaaaatct 300
gagttttcct ccggtttacc ttctacaact ctttttactg accacgcctg acacactgac 360
acatgcattc cctgncacag tggcttctgn ggcccgcctg gctgtactgn acagtgcac 420
ttctnaaggc ggagctgcgt ggacccctgg nccttnttgg gccatggctc taantacccc 480
atggttcctt ccaaaggcaa tgggcantgg cataggtanc cacacgtccc attttttaaa 540
aaacctgnnc cntggatgc 559
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<210> 5711

<211> 555

<212> DNA

<213> Homo sapiens

<400> 5711

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gttgggacta caggcctatg gccacctcac ctggctaatt tttgtatTTT tagtagagac 180
gtgggttcac catgttggcc aggatggctc cgaactcctg acctcatgat ccacccgcct 240
ctgcctcccc aaagtgctag gattacaggc acgagccacc atgtccagcc aattagttgg 300
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ttttaaatat atttaagtta atggacaaaa tattctaaaa gggcacagtt aatgacgcct 360
cttcctagtg aatccgtgtt ctttatgagg tatcttttat agttgtatct tttttttttt 420
ctgagatgga gtctcgctct actgtagccc aggatggaat gcaataagtg ngatcttggc 480
tcactggaac ccctggcttc cgggttcaag gaattttctg gcntaaaccn ccggggaact 540
gagaattcag gcnc 555

<210> 5712

<211> 338

<212> DNA

<213> Homo sapiens

<400> 5712

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ggttgatgaa tgttgataca gtcattgggt ttcattttatt cattatgtct tccttcttct 120
gtgggaggca gcgctgagat gataaatgct gggctcanat ccagcttggg ccactcactc 180
ccaagattca tacacaaaca gaccagcttg atcagggccc agcagggagg tgaggcttaa 240
gcctcctcgc tggaggagga gccaataaga agactggcag cttggatagt gagtgtgtgt 300
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<210> 5713

<211> 555

<212> DNA

<213> Homo sapiens

<400> 5713

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ataatgacat ttccgctgca tttttttcca tcaagaatac caaaacagtt tcctaataata 120
cagtatttga aagtgtttgc catattggct cttaaaatga tagactaatt tttctcattc 180
aataaaagaa aattttctaata aacaaaatac atgtaaagtt agaattttat aatttcaca 240

aaggaagcag catttattaa ccagagtact tgtttgcaat tttttatctg tgaaaatatt 300
 ttaaagctct tacaaaactt aaatttttaa aaaatcagct caaaaatttt ttccatgttg 360
 ttgggcatac cactgctgtc tctgctttcg gttttccaac tctgtaagaa gggcttgnct 420
 gtatgcttca tacattttta caatctgtc caattctttc atgaagagca ctttagcatt 480
 ccctggnatg natccaggca gncagctggn aagagttcca cttcaaaatg gggcatantt 540
 ccangggctc ggcgn 555

<210> 5714

<211> 553

<212> DNA

<213> Homo sapiens

<400> 5714

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 aatatatcat tcctttttca ctagaacca ttcaaaatat aagtcaagaa tcttaatatc 180
 aacaaatata tcaagcaaac tggaaggcag aataactacc ataatttagt ataagtaccc 240
 aaagttttat aaatcaaaag ccctaattgat aaccattttt agaattcaat catcactgta 300
 gaatcagagt ctgtaattct tttcttgatt agagtggtag gacactgtaa tactgttcct 360
 ccatgtttcc atgcatacaa tgttatgtgt tactctacac tgtaaatgca gtattcaaat 420
 tcacttgagc cgtgggcctg gaagttagag actagctttt accttattac tttcaatgat 480
 tttatctggg gtttagctgac aaatctnttc gnggntgaat ccaaattctt nagggctctcc 540
 tcaggggggg cnc 553

<210> 5715

<211> 564

<212> DNA

<213> Homo sapiens

<400> 5715

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 tacttcttga attaaaaaac aaaaaacaaa caaaaaaccc aggagataa tgaaatcctg 180
 catacactca agtctgcatg aagcataagg ccaaactgga aagtgggcat ttgaacaacc 240
 ctcttcttgc tcccttcccc taactaagat gggcttcttg gcctatcaac cattcttttg 300
 taaagagcag caattcccca taggctcttt aacaacagca ttggtgtttg aggttgcac 360
 tttaaaacat ctatttcagg atttgaagc ttctggaacc ataactttaa cccagccttc 420
 cataacagtc tttttacttt ctattacaga acatgacact gcaataatag caatgaaccc 480
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 gggctggaag gcttaatttc ctgg 564

<210> 5716

<211> 564

<212> DNA

<213> Homo sapiens

<400> 5716

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 gatcataata ctttttggca ttggcatatg ctgacaagct gagatcaaca tctacaagta 180
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 cctctgataa caagtatgga tttcttagca gcattgtaac atggnttggt tgnagtttaa 360
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 ccaatttctg gccaatctat ctgggtagct taagcctttt ngaactaccc ggaatgggtc 480
 tggcaactat tgggnaggtca attctaata gctctccttt cagttggcca atttccggnc 540
 cctgctgaaa agcttncaaa cnng 564

<210> 5717

<211> 525

<212> DNA

<213> Homo sapiens

<400> 5717

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cactttggga aatTTTTTaa tcaatcagtt tcttaggaac aacacccagt gggcatgatg 60
agacctcaa agtaggaatg caggaatgat aggcaggtga ggtggntgag ctatctgggc 120
tgggaggcca gcctcctgga atcttaggac aaataaaagg gggaaaaatc caacctcaca 180
cttnttttga aggtcggata tgtttacaga aacaatttct gttttggaaa ataaatgnat 240
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tgagataaat gttaagtgga gctttttaaa atgctgaaac aaaacattac cttggtactg 360
tctccatcat gagatgtatt tgacacattt gaccatgtgt aaaaccccca gatttaccga 420
atgccatgga tccatgtgcc cacnccatga atncaaacct ggnggatatg ttccaggaag 480
gaccggcnna gagttcatgn gctttacttt tnggaaagaa aattt 525
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<210> 5718

<211> 540

<212> DNA

<213> Homo sapiens

<400> 5718

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cttctgctct ttcaggatgg tctcatagcc cacgccccgg gtgggggtaca tgtccccctg 180
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cggaggtggc tgggcctgcc agggngaaga ggagcctgga aaagtcccct tgtcccgggg 420
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ccaggtcctt angggccttc ccaaatccga acggctttnc ttgncaccgg ttgctnaanc 480
ccaacacgta aggggttttt aaaggacctg anagttcttt gccggctttt cgcggngtng 540

<210> 5719

<211> 561

<212> DNA

<213> Homo sapiens

<400> 5719

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tctacgaaca ttgggaaaca caagtaacaa tttcaagcat aacctctggt ataaacaagg 120
gaaacaacaa aagttcatgg gcactcatca caaaaagact aataaaatct aagacctagt 180
aattccttat ggagtaagaa gccagaaata ataaaagaac tgttttaatg gaaagataaa 240
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cccggngaaa ctggtttaga tcccgacttt anggangtag aaccnttaag gngngggagg 540
atgaatgacg agttaagcct g 561

<210> 5720

<211> 406

<212> DNA

<213> Homo sapiens

<400> 5720

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caagcaattc tcctgcctga nactcccgag tagccgggac cacaggcgca tgccaccatg 240
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 tcgaacttct gacctcaagt gatcccgccc cgntggcctc ccaaagngct ggnattacng 360
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<210> 5721

<211> 248

<212> DNA

<213> Homo sapiens

<400> 5721

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 atctccagct tcaccccggt cagggtggtc gggggcagga tctcattctc ctccctgttg 180
 gctactcatt tccagcgaag tttaatctat ttttaatant cgttcannnt tcanggaaat 240
 ggnngngc 248

<210> 5722

<211> 523

<212> DNA

<213> Homo sapiens

<400> 5722

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 ttacaaaaca gatggaaatt taaacaagtt ttttttttaa gtccttccaa atttagaaca 180
 ttgtgaacta ttaagtacat gcctaaaaaa tgtacacatt atcagggaaa cacaagttgc 240
 tctaatagga aaagagccat aatacacata cagtgggaata taattcaaatt aggttcaatt 300
 tacaggtatg tcttaaagtc aagaaaaccc caaagctaatt aactagaact atagggcaaa 360

atcatagctg acttttctaaa ctaatgcacc actatataat gcttttcccc agagaaaggt 420
agaanggtct caagatttat ggtggcccca tggatttttc acggggtctc aaatntaaaa 480
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<210> 5723

<211> 484

<212> DNA

<213> Homo sapiens

<400> 5723

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cagacaccag ccttggggga gggttctcca tccacactcc taccctaaac gggctttgtg 180
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cacagggccg cacgggaagg cagcgggaagg gtgggtgccc caaagcatng ggngggatct 420
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caag 484

<210> 5724

<211> 566

<212> DNA

<213> Homo sapiens

<400> 5724

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taaataataa cagagagaaa tgaagaatta ttctgccaat actatgattt gaattattag 180

caaggcaaaa aacatactat tcagatccct aaaaaccata tgaagcttct ttttaaagtg 240
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 caaaaattat acacataaat tataaaatga tcaaatacaa gacagttttt caatcccacg 360
 ccactgaagc aagaaccatt aacaatttga tggttctttc taggcatttt tgnggaatat 420
 aaaatgnata atgnattatt tttaagacat ggcttttggg aaaatgcttt aatantatat 480
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 cngngaccaa aaaaaaanng ctttat 566

<210> 5725

<211> 573

<212> DNA

<213> Homo sapiens

<400> 5725

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 cattcctttt ttgcttttaa aatactgaga cagcatttta gticaatatt ctaggttcaa 180
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 agtttgtgtg aacaggggaa ttagatcatt tctctaagtt ttaattccta tgttctgaat 360
 gtttcttgaa ttaaaaattc attcatcatc ttactttcaa accacggcat ctctctttta 420
 ccattccaca gaggagggga aaaggactag aaaatacctt taaaaaaatt aatatattta 480
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<210> 5726

<211> 530

<212> DNA

<213> Homo sapiens

<400> 5726

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 tatacaagaa atacaattca aagagatgtt cctataagta cattttttac acggcatata 180
 tttaaaaagg aggccccctt taatataaaa ttccgggttat ataccaatat ggttaattag 240
 catttacact atagtttgaa cgtattttta atagcatgat gtgtatacaa tgtctcccg 300
 gccattggc aaccagggtc gtgggaagct tggtagaggag ttaaccaggc cctgtgggtt 360
 aagcagngga gcacccggga attcctgccc cntttttgt tncacaattg cctccattct 420
 ttccgccttt cntggttttc tccaaaacca cctggatang gggggaaggc cctggatttc 480
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<210> 5727

<211> 545

<212> DNA

<213> Homo sapiens

<400> 5727

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 tctgtacaga aaacaacgaa caaaacagaa cttcaacagt aacactggcg tggcataata 180
 taagccacgc aaaatgcttc caaatccatt atctcttctg agtttcatct tgtgaggttt 240
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 gagttactaa aaagagaatc cagatctagt tcaaaatctg gnccttcttt cactatacca 360
 ataacatctg actgggaggc agnatgagaa gagcaatgga gtaagcacta anggtaattt 420
 caggggcctt aaaccccccta atatattatg gaccactctt canttgaaaa aaggttggca 480
 tttcttnaag cnttaaaten ccattatata tttttnaagg gtttcccagg tcntttctac 540
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<210> 5728

<211> 513

<212> DNA

<213> Homo sapiens

<400> 5728

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agtagagacg gagttttacc atgttgtcca ggctgggtctc aaactcctga cctcaggtga   60
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ctctctttct ctctctcttt taatctcttt attatggaaa ttcagaaaact atacacaacc  180
cagaatagtc tatgaactcc ctaaagactc atcaaccagc ttcaacaatg atcatctttc  240
tgcccatctc attcctctcc tttttttttt tttttttttt tgagatggag tctcgctttg  300
tcaccagggc tggagtgcaa tggcacaatc tcaagctcac tgcaacctct gcctcctggg  360
tacaagcgat tctcctgcct tagcctnccg agtaagctgg gattacaggc gcatgcccc  420
gtgcccagct aatttttnga ttttttttta gtananaacng ggnttcacca tgcgggcaag  480
gctggcntgg aactccnggc ctttgaactg gca                                     513
    
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<210> 5729

<211> 250

<212> DNA

<213> Homo sapiens

<400> 5729

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cgagcaanaa tctgttaaca gttttathtt ttttatgtta aataccangg gacaggattg   60
taaggatgaa aaactcagtc aacaactgcc tcacanggga taanaaaaat tctgccatga  120
tattagcaaa ggtaaaggag gaaaaattta cncgtgaana ggcncattt cccaaggaa  180
tacctntngg catttcctga atgagnggga ttagcaatct aaataaatca tatttcaaga  240
ggtancagca                                     250
    
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<210> 5730

<211> 569

<212> DNA

<213> Homo sapiens

<400> 5730

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cattagtgtt ttaaaaaaaaa atactgaaaa ctccttctgc atcccaatct ctaaccagga 180
aagcaaatgc tatttacaga cctgcaagcc ctccctcaaa cgaaactatt tctggattaa 240
atatgtctga cttcttttga ggtcacacga ctaggcaaat gcaatttacg atctgcaaaa 300
gctgtttgaa gagtcaaagc ccccatgtga acacgatttc tggaccctgt aacagtatct 360
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aatccaaaac cttgcctcaa aataaagctg tctgtgggt gaagtggct ggtctggttc 480
attctgacca ttctgacttt tgnccaaaaa gccgtccaac tgnagacacc ctgntggcag 540
aactccaaca ggtcccnag gtacgaggc 569
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<210> 5731

<211> 583

<212> DNA

<213> Homo sapiens

<400> 5731

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ttcattccag ccatgatgag catctgtctt ctcaggcaat catgatgaag ctccagggac 180
agtataacce atctctccca ctcacccctg agccttggtc ctggactgaa tgtggttaga 240
ggttgtggaa ataaaaaaaa gaaccaaatt aagaacactc tccataaaag ccaagctcag 300
agactggctc tcttttgctt aggtacaaca ggagcaggaa ggatcaacat tcttgaaagc 360
ataccttcta ttcatttggc ttttttgact tggggccgcc agtgtnagc tgagcactcc 420
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actgcccttt ctccactcac aaatgtctgc ataggtacac gttccggcac tttcaagcct 480
tcttccacgt naacttcctt ggggcttttc ggtggnccat ncctgntcct tgaaaggtaa 540
aagggtcaaa ccttanccaa gatcccaang gactccgaga tna 583

<210> 5732

<211> 460

<212> DNA

<213> Homo sapiens

<400> 5732

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ataattttat agtaacagta aaattctgaa tcactttata gtaaaagaaa agacacagag 120
gaaaataatt tccctgtaca atgaaatttt catacactat atgaagattt cccacatctg 180
tcaagttttg gctcagaata aaagatagct aatatatttc actctttttt ctggtacttt 240
tttttttttt tttgagacag tggttcgctc tgttgcccag gtcggagtgc aatggcacca 300
tctcggntca ctgcaacctc tgcctcccag gttcaagcga ttctcctgcc tcaacctctc 360
aggtagctgg gattacaggc gtgcgccacc aaaccagnt aattttggat ttttagcnaa 420
accngnttc accatgtggg nanggctggg ctntaactcc 460

<210> 5733

<211> 564

<212> DNA

<213> Homo sapiens

<400> 5733

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ggaacgaaaa agagcccagc atttcctaag ctcatctac gtgacagggc atttatttag 120
nggaattaca tacaggaggg tcttggagat tgcctttgcc tttcacttgg gatgaaaatt 180
tcctctgcag catgcaaaac aggtgagagt gttcctgctg ctacagagtt cttttgcact 240

aaaagaaaaa tcttcctcct ctcaaatttt gcctaccaac tctagcacag tcatctgagg 300
 cagcatgaat caagcccagt tttctttctta cagtcacttc cttaacagtt aaaagaagca 360
 tctgtcttct tggacttctc tggacctaat accccttata ggtcagctat ccccagcaca 420
 aagagatttt caggaatacc tcaacttgnt cactcactac atgcctctta cagtctacca 480
 accatggtac ccanaaatgg actcagattg cnctaaacat actgcttcnc atacctggcn 540
 ggtaggaata gcctaaaggg gtan 564

<210> 5734

<211> 558

<212> DNA

<213> Homo sapiens

<400> 5734

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 tgatcaactt acttcctgtg gccattagg gaagtgggtga cctcgggagc tatttgccctg 180
 ttgagtgcac acacctggaa acatactgct ctcatTTTTT catccacatc agtgagaaat 240
 gagtggcccg ttagcaagat ataactatgc aatcatgcaa caaagctgcc taataacatt 300
 tcatttatta caggactaaa agttcattat tgtttgtaaa ggatgaattc ataacctctg 360
 cagagttata gttcatacac agttgatttc catttataaa ggcagaaagt ccttgntttc 420
 tctaaatgtc aagctttgac tgaaactccc gnttttncag cactggantg tgggccgtat 480
 gaaagaaaac ttacantag atgggagaaa agggaaatag ncttgaaagg nagggnggtt 540
 tttttttttt gacagggc 558

<210> 5735

<211> 564

<212> DNA

<213> Homo sapiens

<400> 5735

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gagggagcag aggagcacca gctacttccc aaacagcgcc acggggaagt cctcgccatc 180
actgttgctg tgctgcagct ccccgctctg cccagctct ctccaacat cttccatgag 240
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cgctgatagg cccaggttct ttggcactgt tctaacttct tttccctctg aaaagctggc 420
tgccaaggcc ttgctctggg gagctttaa tttttctta aggctggttt ctctccttnc 480
ttccttttcc aactcttct cttctccttt ttctttanca ngatcctggc tggttaaaac 540
caaaaactgg aagctttttt ttcc 564

<210> 5736

<211> 571

<212> DNA

<213> Homo sapiens

<400> 5736

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aaaagttaca cattaaaata ttttacaatt cattatatat tcaccagggt cccattttct 120
aatgggcttt taatataaag cagaatagaa gggaaaatct caaagttgat tactttgaca 180
ctaagtttta cataggacac taagaaccac aaaaagctta ggttctattg taaaatagca 240
accaaattcc attcttcttt taaaaatcca attagaaaca tcttttttaa aaaaacaaat 300
tccacaataa gagtaacaga tttcaaatta acagtagtct aaaaatcttc aaaataaatg 360
gttttgtata gctgagaata tggtagaaag tgaaagcata attttccaac agtcatttct 420
tactacagtg ngtttaaaat tatttttatt acttttagac tttttctcaa aataattatt 480
canggaaata ttcttaaggn gggccaataa aactgnagag gccataggca ggtaccccca 540
tattcanggc canggatggc agctnttgat g 571

<210> 5737

<211> 539

<212> DNA

<213> Homo sapiens

<400> 5737

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aacctccacc tcctgggttc aagcgattct cctgcctcag cctcccaagt agctgggact  120
ataggtgtgt gccaccacca ccggctaatt tttgtatitt tagtagagat gaggttacac  180
catgttggcc aggctgggtct tgaactcctg acctcaagtg atccacttgc ctcagcctcc  240
caaagtgctg ggattacagg catgaaccac tgcacctgga nagcccactg cttcttgatg  300
catgttttga acttcaaagt tggaccagct gacagaggct tcaaggggac ctttagctga  360
ttctgctcaa ggaccagttt attttgtaa catcaccaaa tagcctanag tggggatatt  420
acctaatttt agaagagtct tatgnnctaa naaaagtaga tgcatagggt gatcatgcnc  480
agaaagattt tcatgctcct ctttgctctn ctttcnttg aacatccagg gggncataat  539

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<210> 5738

<211> 567

<212> DNA

<213> Homo sapiens

<400> 5738

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caaattaatt atttctttta ttcccaattg gtaaatagtg aatggggcag aggagcaaag   60
atttcttttt ctttcttcct acgttgata aacaagaaca gaaaacagcc agttatatgt  120
gaccctctaa tcttactca cacatgcttg ctttctcact tatgtcataa ctgcccacatc  180
tgaaacagta catcacagat gacagatgca accagagagt tcaggacagc tgatatcgag  240
atatccagca accggccctc gtgcaaaagg aattccgagc ggttttcgtc cactctggcc  300
atggctagca aagccttggc cgccctgcac atcatgtcta cgctaggtgg ttccaggggc  360
gggggctgca tgtgcatgag gttgtgctgg ctctgctggt actgggcat cgtgacccca  420

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tcctctagga agcttatcaa gtttccaatg cttectttct gcacagctat ggcccttgct 480
gctagtgcgt ccccttggca aggttcgata aaagcgccat gggcatttnt cgacagactg 540
ggntttgggg ancccaacgn acctant 567

<210> 5739

<211> 504

<212> DNA

<213> Homo sapiens

<400> 5739

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agcccacagc cccaacctgt cccctggctc tgggcctggc ctttggtgcc caccctggcc 120
tcacatgcca acgtcttctg tggagtgtgc aggtgtccat gagcgttcct gtgttggggg 180
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ggagcccact ttggatgggc acaccaactg gcagcaatgc cgggcgaacc ccaccatgca 420
caaggaactt gnanncanncn ttacatatga gaacccccac ngacncggaa ccacgaaagg 480
acccaagga ccacccttga atgg 504

<210> 5740

<211> 560

<212> DNA

<213> Homo sapiens

<400> 5740

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gatggcagat attccccctc tagaaatgca ttaattttat ttactaaaca gggcagcagt 180

tcacaggtct caagaccggt cactttgtga tgttttgcag ccacacaaca ggaggctaata 240
aattatttta atagccatac tgagactctt cagtttatta agaaaaatgt atttcctcag 300
gcattttaaa atatatatac atttaatat tttggagctg tatttgcatt ggatcataat 360
agattatgtg cacatgtgca attataaaca taatgtgcta ccacaggctt caacaaagag 420
ctgttaaaga tacttttttc ccttctcatt aatattacct tagaaaagaa tccccatgct 480
tggtttataa aaatctacct tnacttaaac agacaggtta gaacngaaca tcctatctta 540
aaggtgggta aaaaaatctn 560

<210> 5741

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5741

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cgaaaaacac taaatactgg cagaaaggaa aacaactgat aaatccagag cccaagatta 120
cggatttgaa attaatacac taccactacc acctctctcc ctgaaacaga gaccctctct 180
gngtaaaatg aaagagatga aaggagctta aaaagctgct taaaactgca gaagtccctc 240
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ccatacatgt tcatcacctg gggagaagat gggaggcagc ttgccatgga ggggtgcggca 360
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aggcctgntt ctctaccctt tctncctggc cactgagcca agtctgncca tcaagggcc 480
aaggcattca tggcagcacg tgccgttata agccctngga agnccntacc atggattgcc 540
tggnatccct gggaaaa 557

<210> 5742

<211> 512

<212> DNA

<213> Homo sapiens

<400> 5742

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tgagagaatga ggagaatgaa gatgagatta gagccacctg ggtcttggtc ccagctctgc 360
cacttactgg caaatcagga aggaatgttc ctgaggggtct gagaaagcat cattctctct 420
gggccttaat tctcanggca gaatggggca ctgcatcttg gaaaaagtng gcaccttaac 480
ntgnttgctn caagggtaaa ggnttgcnac ac 512

<210> 5743

<211> 551

<212> DNA

<213> Homo sapiens

<400> 5743

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ttacaggtgt gtgccaccac aaccagctag ttttttttaa atatttttag tagacatggg 180
gttttgccat gttggccagc ctggtctcaa actcctggcc tcaggagtga tccgtctgcc 240
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aatgattagc tgaatcagag aacaagagag agctggatat gtgtgnggct atgttttagac 480
ctagagaaaag agaaagcnna tntngcccat ggtaacgatt ggtaaactcn aagtccccggg 540
gnggatgggg g 551

<210> 5744

<211> 549

<212> DNA

<213> Homo sapiens

<400> 5744

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gggctacagg catgcaccac catgcccagc taattaaaaa aatttttttt gtagaggtgg  180
agtctcacta tgttcccca gctgggtctca aactcctggc ctcaagcaat cctcccacct  240
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aacacaaggn caatatgcaa aacaaaatac agatactaca gaataagctg gagtagcaga  360
gagagacata agataacctc accttataca atgcagaaca tctgncttta atcataattt  420
tttttttttt ttgagccagg gctctttctg ggttcctggc tggagtgcc a angngngac  480
acnggctact gggagcctta anccctgggt taaaagancc tctgcttanc cccccaggaa  540
cttggactt                                     549
    
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<210> 5745

<211> 499

<212> DNA

<213> Homo sapiens

<400> 5745

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ataaattaaa aatgtaatgt tggacattaa tttcctaaac ccaatgctca gcaattttct  180
caaattgttt cgcttttccc aagagacttc agaaccattc cctggagnga attattttcca  240
atggtgaaga gtaatggatg gatgggatga cattctcaaa aaaatcttgc tcctatttca  300
gaagngtcac tccagcccct tgaagggtcca ggaaacctgg ctgagtagtg tggctctatgg  360
    
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aggtgcatgg gcttcagagt caggccaacg ttgatcctga gtcccagcca gctgcttant 420
anctgnngga tagttatacn aggacacatc tagtgatggg gctcaagctg aagacngnta 480
tctggcgatg cnaaaaacc 499

<210> 5746

<211> 563

<212> DNA

<213> Homo sapiens

<400> 5746

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catctttctc attcttttagt agctgatgca aattcctgtt cttacattgt aactgtctgt 180
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cagctactat atttaactct ctctttgtct ctttaccttt ggattcttca tataatgaag 420
gaaaaccaa agtagtcaat tcctggtagg agaaaatgnt ttcttaaagt tggttacagn 480
tgaggagata ctggcagagg atacaaactt tcagntagat aggaagaata agnttaatag 540
gactattgnn ccaccnnggg gnc 563

<210> 5747

<211> 550

<212> DNA

<213> Homo sapiens

<400> 5747

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ttcgtgggggt ctccgggggc ttttcatgtt taacttccaa tctgtgaaga attgttgtag 180
gtgatcacct gccttcctac cccacacacc aagcacagga gaccctgat taacaacaaa 240
ccaaaagtgc atgctgcttt aaggaagtaa ggatagaact caggaatgca gtttcaaaag 300
atcacaggaa cttcaagaga atcttcctac catatttagt gctttctcca attttcggag 360
aatcttcaac agaattgtag gaagtaaggc aaatacattt gattaggctt atgaggagaa 420
attagaggaa agtggttgta gaagtgtttt aatcactatc ctgcatatta aaagatcaga 480
tnggatacct ggtcaatggt tcnttggttt tgaaatggag ncttgctntt gganccag 540
tgganngcca 550

<210> 5748

<211> 558

<212> DNA

<213> Homo sapiens

<400> 5748

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gtaagcagta ggcattcaca tctccacatg tacaatgcac tgggaagcac agccccacca 180
gtcactccgg gtgtttctca aacaagatac cgactcgggt ccaaattgcca cgggtgtgtg 240
tccggctcca tcctcccgca gctctgctgg ctgggcgggc acagcacagc acaggtgtgg 300
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aaaaattnca tagcttgcaa tgnctcaac agcatcctnt nggcctggag cttacattnt 480
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<210> 5749

<211> 541

<212> DNA

<213> Homo sapiens

<400> 5749

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tttgcttgta tgtaaggatt ttatttctcc ttcacttata aaacttagtt tggctggata 180
tgaaattcca gttagaaaat tcttttctct aagaatgttg aatattggcc cccactctct 240
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ctcctgggtt cagccattc tcctgcctna cctnccacgt agctgggact acaggcgccc 480
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n 541
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<210> 5750

<211> 564

<212> DNA

<213> Homo sapiens

<400> 5750

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gagttctggg taacttgtct ttgcatttat ccaaaactga gttacagaca ctgatttaaa 360
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gagattatta ttttggatgat tcataaaagg gtgaattatc cacaaatttc ctgaacgcaa 480
gtcttgggtc ggtgggaaaa cagcctggac ccttgggaaa agtccttcca gggctcaaaa 540
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564

<210> 5751

<211> 543

<212> DNA

<213> Homo sapiens

<400> 5751

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gggagggtta aatgtgaggc cagaacaaa tctcctgttt ccaggagctg aggatttaga 180
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ctgcctcccc cactaacctg ggtgtgaagg ttctttctca gatgtgtctg gctactttgt 420
gccaggctcc ctggtanaag cttgattaat gctattcatt tcattcttac ncaggnattg 480
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<210> 5752

<211> 471

<212> DNA

<213> Homo sapiens

<400> 5752

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actacaggca cacatcacca cacctgggtta atttatttta ttatttcatt tttgtggaag 180
ggtctcacca tgttgcccag gctatacaag gcttaatttt aaaattttaa atcagccggg 240

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 ggtcaggagt tccggacaag cctggccaac atggtgaaac cctgctctac taaaaatata 360
 aaaaaatgag gcgggcatgg ngggtatgtg cctgnaatcc cagctactca ggagactgag 420
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<210> 5753

<211> 575

<212> DNA

<213> Homo sapiens

<400> 5753

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 ttccggtttt gaagacgatt cccaaaacgt tctgatatag aactcttctg gccttaggcc 180
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 tcagggaaga tttcagctac ctacctatag gagaaatgcg caatcaatta ttgattttaa 360
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<210> 5754

<211> 590

<212> DNA

<213> Homo sapiens

<400> 5754

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 tctaagaggt caccaggccc ctgatgacaa gctaaattca gattgacttc tatgtgtcag 180
 cccacttagg ccagtgcatt tgctgtatgt tgggtggctc tgaacacagc agaaagggga 240
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 ttttgagtcc actnaccttn atctgggggn ggcncatatg ccaaaacctg gcggangcca 540
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<210> 5755

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5755

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 tacaggcgcc tgccaccact ccacgctaatt ttttgnattt ttagtanaga caaggtttca 180
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 ggatggcatt gggacagngg ttagcactac angtttgggc tgcaatggcc ggnnttcggg 420
 tggcaaggct ttgcctgang agccntcaag ggatgggccc atgccgatct tggaaagttc 480
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<210> 5756

<211> 529

<212> DNA

<213> Homo sapiens

<400> 5756

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actgtggact tgtagtatag tttgaagttg gatagtgtga tacctccagc tttcttcttt 60
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agtcttttct aattctgtga agaatgtcga tggtagttta atgggaatag cattgaatct 180
ataaattcct ttgggcagta tggccatttt catgatattg attcttccta tccatgagca 240
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ggatataggaa tgcttgngac ttctgcacat tgactttgat ctngagactt tgctaacgtg 480
cttatcactt aaganncttt tggcctgnaa agaatggggg tttcganan 529
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<210> 5757

<211> 571

<212> DNA

<213> Homo sapiens

<400> 5757

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ggcgtgtacc accacactcg gtattttttt taagagacag gatctcacta tgttaccag 180
gctgggtctca aactcctggg ctcaagcagt cctcccacct tggcctcccc aaaagtgatg 240
agattacaga catgagtcac ctgcctggcc tgatggtaaa ggggggtata acctgttggg 300
aaataaatta ggggttagatc acactaactt caaaatgcaa tcatgatcat acatggtaag 360
ttcctcaaaa aattaaaaat aaaattacca tattatccag caattctact tcaggggtat 420
atgccccaaa gaactaaaag caaggacttg aacagatatg ttcaatcacg aacctatgtt 480
catagcagca tttttcncaa tagtcaaagg ntgaaaccac cccaangcta tggaatttgc 540
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ccggttaacc aaaggggat ttttccttgg g

571

<210> 5758

<211> 540

<212> DNA

<213> Homo sapiens

<400> 5758

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aaggattgat gatctgtact gactccagat ggttatgttc tcctgatgac agatggaagt 120
ccaggaggcg gggccatccc aagtgtatgc cagcaagata tggttctact gctggtgacc 180
tcatagaagc agagtcacat ctggagaaag acatagctct catcctgatg ggcatctcct 240
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cagtttagcat cttgnttact gccttcccat gtgatggctg ttttaagctcc agagtccctt 360
actctccttc ctgccactat atcatcgata tgggtggcct gggaagggat ggcatattatt 420
catgacnggg ggcaagtgtc cagatcccag atctaccgaa aatctttcat tctggtgggg 480
ccccctgntt ccaccttggg ngnccttcc ccnaacttta ttttaacaggc anggncatag 540

<210> 5759

<211> 556

<212> DNA

<213> Homo sapiens

<400> 5759

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tgtgtgccac gctcctggct ctggtacgtg gtatgcagca cctctcgggc cttgggggag 180
ttgateccct ccagccactc ctggtacagc tcctgcacgt gtgcactgga ctccggacgc 240
cgcacaggga tgtcagcgta aatgccttcc atctgccgca gcagggcctt atccgcatgt 300

ccgtctggag tctgggcttg gcctctgcc a ttttaagcatc ctcagcacag gcgaggacct 360
ccacaaagtg gaatggggaa cttgcccttc ttaagcttta aggacatgtc tggatgtttc 420
naaagccata ggctgcagca aagcgtacac cacctttccg tcttttaang gtgacctttt 480
ggaaagcttt ggttttaagg cttggnaagn gacctctcaa atcctngttg naaaagtctt 540
ggccnatgnt taaaat 556

<210> 5760

<211> 580

<212> DNA

<213> Homo sapiens

<400> 5760

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tatctacaga tattaagaaa aactttgggc tgcataattta gacataactg cttttttgca 180
atattgattt catattctac tgctaagatt tcttatatgg gatttgctgc atttcacaga 240
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accactataa ggaaagcccg tgttcacttg cattggtaat attgaagaaa taatacactt 360
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gttgggggtt gttttccgga gaccagaagt ctnccttttg caccagctg gaatgcaatg 480
gcncgactcg gttactggna accttcgctt ccgggggttaa gccaatcttg ggcctaacct 540
cctgagaact gggattccga agcccgtgcc caccagntan 580

<210> 5761

<211> 521

<212> DNA

<213> Homo sapiens

<400> 5761

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 gcgcaatgag taacagtatc aggctgagca caggggacag tagtctgata ctactccaca 180
 tacgcaggta gttctgccgc tggcgagacc gcagcgtcct ttccacccac tgcctgtgtc 240
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 agagcacaac cagcactccc agcacaatcc tggggcagaa cagggtggga acagggtgtgc 360
 tgcagagctc acggagaagc tggggccacg tctcagtagg aagacgatcc aagtccttta 420
 acacacaacg attctnaggc atatgngat cagctcatcc gcattttttg gaatcnaaaa 480
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<210> 5762

<211> 533

<212> DNA

<213> Homo sapiens

<400> 5762

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 gtggcacaat ctcggctaac tgcaaccttc cacttcccag gttccagcga ttctcctgcc 120
 tcagcctcct gaatagctgg gactacaggc atgcaccacc atgcctggct aagttttttt 180
 attttttagta gagatggggg ttactatgt tggccaggct ggtctcgaac tcctgacctc 240
 agngnatcca cctgccttgg cctcccaaag tgctgggatt acaggcgtga gccaccatgc 300
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 atcgtactag tactcttcaa ctgaatttta accttacttt gaaatattta tatctggctt 420
 taagaattta aatgaagaca tttcacagg actaattcta gaaaaaaggc tctgngngac 480
 antnaaaatc tataatataa nttaanattt ccagaactgg cttgaaaatt ngg 533

<210> 5763

<211> 462

<212> DNA

<213> Homo sapiens

<400> 5763

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gggtgggagg aaggatcagc taaatctgag ggaagaagaa ggaaaggaga gggactattg 120
catagcagat gcaaataaag ggacttgggg ctagtcagga agaaagggaa agggaaggaa 180
ggcaagagag aggggtgaag ggaacctcag gaaggggtgt taaggacaac cggaataatc 240
atctagtaat aaaactacaa acagaccaa tatatataat attatatatg tataaataac 300
agctggctat ttacaggggg acacacacac ggacacacac acacacggat ccaggggagt 360
gggggctgaa agatatggct gataggtgga ggaacggctg agggttgggg gagaggccct 420
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<210> 5764

<211> 513

<212> DNA

<213> Homo sapiens

<400> 5764

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tacaggcgcc caccactgcg cctggctaaa ttttttttct ttctattttt agtagagaag 180
gggtttcacc gtattagcca ggatggtctc gatctccga cctcgtgatc caccacatt 240
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tatagcacct tcatacttaa cacatgaca tcaaatgaca acgtattcac acagaaagca 360
ggcattttgt ttactggttt atttatgttt acttatgcaa ccaagagaac ctatatggct 420
gtcatgggag ccctaccttt tagaaagaga acaaccncat caggacaagt tntaaaacac 480
ttntggatac naggngggan taacctttga ncc 513

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<210> 5765

<211> 543

<212> DNA

<213> Homo sapiens

<400> 5765

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cagcaagcat taggacatgc tatTTtggcc ccataagtta ggtgtgtagc actacacatt  120
agacaccaag tcatcccaac caatatttat ccatatgaac agataaactg aacaaaaaca  180
tagttctgat aaaacctgca ttcacaacct aatgtagttt aaagtaaatt ttttcacaat  240
tgagggtgc tatttaggac tgTTTTgtta ataataaaaa caggaattat atagaagata  300
aaacaccatt ttttactgct atataatgtc ttgctatata aaacataccc tcaacaagtc  360
aaaatattta aaaccagtgt ttcaaatacc aaaaatcaca gctatgttac tggTcaagta  420
acttactca ataaatggta ggactggant cttggangga aaaaactgna gccaagncag  480
nacctttaag ttggnctcca aggtttaaaa ggacggaccc tactttgnaa acggaaaact  540
gcc                                                                    543
    
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<210> 5766

<211> 556

<212> DNA

<213> Homo sapiens

<400> 5766

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aacatcttgc tgaaattaca agttaatgtc tcagaaacag aattcaaact cagatttgtc  180
tgactccaaa acgtactttg tagtactagg gatatactgg aaaagccctt cagcctttta  240
tatagtcaat tgtctgtaaa aaggacacag tccaaacaat gaactgttaa catattttac  300
attattgaat atatacatgg agactgtaaa gaggtaaaag ctctaaaaat aatggattca  360
cagaacttga aaataaagtc aagactgtgg tctctctctg aaactgaata gagtaaaaca  420
    
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gacgatgaag aaatgagcta ttgacagagg taataactta cccttaangg naaatttcaa 480
 atatcttttt tttttttttt ttgggaaca aancctgntt tggcaacca gctggaannc 540
 ttgggcccaa ccttag 556

<210> 5767

<211> 523

<212> DNA

<213> Homo sapiens

<400> 5767

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 ttctgtatgg caagcataaa tcaagctcag tctgggttat ggagaagttg aaaattgttt 180
 tgttcctcat tagtttataa ttgtatgaaa tacgatttta atgaaaactt ttcagaattc 240
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 tatggttttg tcaataaaac actatgatgt tggctctgttt ccttttatat ctcaagtctc 360
 aaaactttta aagacagtag atatttngg gtttctagct aaatgagggc caagattgga 420
 ctttttcaac taaattgaat catgtagtaa tatctgattt catagcttcc tgggggaaaa 480
 agggaggatt tggaatanca nncntgcang gcaggacnng taa 523

<210> 5768

<211> 537

<212> DNA

<213> Homo sapiens

<400> 5768

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 agcgatcata gatatgtgga agccaatagt cattactagg gatcatgatt cgaaaaaaca 120
 gcctctcttc aatgatcctg aatgagccct ttgaattcct ctcctgcaac tgatctcccc 180

atggggagtg gtgagggatg ggtggcagga agggacccta acccaaagta gttcagagcg 240
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 tccccagctt tctatttcat ttgctaacct ctctaggaac aactggatgt tgtaaagtgt 360
 tctcatctgg ccttaaaatc catgaaagct ggaaaatcac aaggcatctg ngcatatact 420
 ggtggatttt aatgagaagc ctgggggttng agcccngaaa taaccngctt tanaagccaa 480
 gtagnaaagg ccctggattt tgacctggcc atgggnntac ctatttgagg ggggatg 537

<210> 5769

<211> 531

<212> DNA

<213> Homo sapiens

<400> 5769

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 gcctgcttcg tgctgccatt cagaacaggc ataaaaagca aatcatttac tttccgaaa 180
 cagagtccag ctgcacagag cattcgcggt tatteccttg ttctatcatt ttctaccacc 240
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 aagcagggtga atgcgggaac atccttggct tgccaggctt tatgtgaagc ttgcattttt 420
 cttatccttg gctttcttgg ttgctgggc cccaagatgc tgggcctggg actgtagtaa 480
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<210> 5770

<211> 548

<212> DNA

<213> Homo sapiens

<400> 5770

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 ttatacttta agttctaggg tacatgtgca caacgtgtag gtttggtata tatgtataca 180
 tgtgccatgt tgggtgtgctg caccatttaa ctggtcattt acattaggta tatctcctaa 240
 tgctaaccct cccactccc ccaacccac aacaggcccc ggtgtgtgat attccccctt 300
 ctgtgtccaa gtgttctcat tgntcaagtc ccacctatga gtgataacat gcaatgtttg 360
 gttttctgtc cttgcgatag tttgctgaga atgatggttt ccagcttcat ccatgtccct 420
 acaaaggcat gaactcatca ttttttatgg ctgcatagna ttccatgggg natatgngcc 480
 ncaatttctt aatccnggct atcattggtg gacattttgg ggtgggtccc aggctttggg 540
 tattggga 548

<210> 5771

<211> 540

<212> DNA

<213> Homo sapiens

<400> 5771

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 gcanatgccc attggcatca ccggtgcagc cattggtggc agcgggtacc ggtcctttct 180
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 ggatgttctc gatgcantcg cgctggcgga aaagcgcatt gaccaccggg ctgccgggcg 360
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 cttngggtcc atgtcagtgc aaaaacttac gcccttggac annttgggca aacaacgctn 480
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<210> 5772

<211> 542

<212> DNA

<213> Homo sapiens

<400> 5772

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ctcttatttg aattttctga gtcactgctc tcagaaaagt ctgaaacatt gtcagttcga  180
agtcttttca tatttagttt cttttcatcc tcctcaggtt tccttctttt attcatcaag  240
tgtttgtttt tacctttagg attttctcct cgtgatatat aatcatattt ttcctccttc  300
atcttctctt catctggtat actgctatct gagcccttcc tcttattcgg acggatactt  360
ctttgttgct gttgctgggtg tgtattctgt ttigtgtacag cagcttggga gttcattgct  420
ggctctgggac tatttgcttg gcacctgtat aaaggctgng aacagcggtt gacgtttgaa  480
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<210> 5773

<211> 280

<212> DNA

<213> Homo sapiens

<400> 5773

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catttccttc acttagtcca cggccactcg gcgctcatcc ccagcacagc cctccccagg  180
ccgcggcaaa gactgttgct gtcctgctga gggatgtgcc cccggggatt caatcgagat  240
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```

<210> 5774

<211> 403

<212> DNA

<213> Homo sapiens

<400> 5774

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ggagaggatg gctcctctct gcaactgac gccctaangt ctgcagctct cagaagagag 180
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agctcctctc ttaggcttgt tgacccatag gtctctgccc tctgggccct ctggcagncc 360
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<210> 5775

<211> 549

<212> DNA

<213> Homo sapiens

<400> 5775

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ggtatgtcac tgcactcttc ttacgctctg gctcaaagac tgctccactg tagaccggat 180
ttgctgttgt tcttcttttt cgctcttgcc tcttgctttg gatttcttct agatgggtcat 240
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gtttgggtgc agcaggtggg gtgatgggtgc ggctctctgt ttgtttctca tctgnttctg 360
tgtgagattt aactgtctgg ttttcaagac ttggcttgct aagctgtaca agtttgaagg 420
ccaacnaagt ctgggccctg gagtancat cacaatgctg gtgancgtgg ccatggggga 480
aaccgtttgg ctatggttgc antctgncca ttgacnacac cggaccgggt ggattggaat 540
ctgggatng 549

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<210> 5776

<211> 530

<212> DNA

<213> Homo sapiens

<400> 5776

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cttaatatg agtttattag ataaagacaa gaaaaaatgg ggcttgggga aattggggct   60
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aatgttacct tcactcccct cctccctgct gtccagtgtg gatgccacct ccagcctgca  180
ggacggagcc ccctcccata atcacacagt gcacctgggc tctgcagccc cttgcctcca  240
ttgcagccgc agcaagaggc ctccacttgt ccgtcaggga cgctccaagg aaggaaaaag  300
ccgcccccg gacaggggaga ccactgtgtt ctctgtgggc aggtggggca ggtgctccag  360
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tggtcttttc tcttggaactg ggaacttcgg cagaagtcan gctncacaat gngccccaca  480
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<210> 5777

<211> 541

<212> DNA

<213> Homo sapiens

<400> 5777

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ccagcaaaag caataacata ttcatcttt aaagctttta ttctttaagc aatctacttt  180
aatcacttca aggcggtgat atcattagat gttacaaaat taaagagctg ggctacataa  240
tttttggaac tctgcaccaa agaagccatt cacaatggaa actgtggagt ttcggtagat  300
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gggctttcct gaggagctgt cctttagcct caactataat cctggtaaac tcacagccaa  420
    
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tcatttttaa aaagaagcct gtagataaga catcaatcca ggaatctgaa gtagttnaga 480
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 t 541

<210> 5778

<211> 539

<212> DNA

<213> Homo sapiens

<400> 5778

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 aagagcaata aaactgtcct tgggaagagc ttctgacacc agtgatggct gggaggccca 180
 tgtgacgtgg atgcttggga tgttgtcatt gacatccaga accttgatga gaactttgca 240
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 gttcttttca tagtctagag gtcgacgcag aatgacctgg cctgtcttgg catcaatact 360
 gaaggtgtcc agcacctctg gaggcattgt cttactgagg aagaactcca cctcccattg 420
 gggccttggc caaggtctgt ggcggaatt ttatgagaag cgtaccaagt gccanatttt 480
 cttggatttc aagggccagg gaacttttan naaacnccng ggttttggca atggggcca 539

<210> 5779

<211> 493

<212> DNA

<213> Homo sapiens

<400> 5779

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 cctcaggaan acgtggtccc cacctggagc ttccctcggn tgccctggcc cttgagcccg 180

tcctgaggat ttgngctttg actntgacag ggagcagcag gaagctgcca gcccactgcc 240
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 gccccatcag ggatggccac agtccagcca caggggcgac tntgcccatac agtccccctg 360
 gggcagcgac canatcctgg ctggggcagc accggacagg cccntntat gggcctaagg 420
 gcaatgcaag tgggggcttt gttggggcca agncaatgga cccancccta ngaancccta 480
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<210> 5780

<211> 530

<212> DNA

<213> Homo sapiens

<400> 5780

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 acagctagca taaaagctac tgatatactg gacagtagac agcaaacagg gtggatttgc 420
 ctttatcaac acaaacccca acacaggacc aaggcattcc gggttcanggg cagaagtcct 480
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<210> 5781

<211> 541

<212> DNA

<213> Homo sapiens

<400> 5781

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 tgatgtacaa actggnggggt canatcgtct cctntaacat gacgctacac tgnCGctgag 180
 gaacacattt aataacactt canaactgaa ctgaaacgtg gcacaaacat gacaacttcc 240
 aggcatgcct tcaagcgtct ccctnaggag ggattcgcaa cccctanact tcagtgtggg 300
 gaggattaca attctttgga agaataaaaa gtccacactt ttgaaatttc acagaagaat 360
 ttttaaggcca aaacatagtg ggttcatttc tcttcacttt cagggacaaa tctgagcttt 420
 ctnaaacncn attaaagcttt caggtcnaat cccaggccaa ccttgggacn tctngactgg 480
 aagtttttcc catcggttta aagctgataa aggcaatttg gctcctagga agaanaaaanc 540
 c 541

<210> 5782

<211> 529

<212> DNA

<213> Homo sapiens

<400> 5782

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 ttgccgcaa gtttgtgatt gtcacgagtt cacaagtttg gaatcctggg tctgggccgt 180
 gcagacgtcg cggcgccgcg ggctagcgtc ggtaggggtg gaacccttgc acgttgtggt 240
 tctgccctcg tccaaagccg ctgccgccgg cgagggggcc ccccgaccct ggcacggagg 300
 gacccccgta ggaaggaggc tgctggctgg ggtctgagaa gccctgtccg aagccactca 360
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 ttgcttatgt cgggggcacc tgaaacggaa gccgtgggaa agnccnaggg cttgccccgg 480
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<210> 5783

<211> 494

<212> DNA

<213> Homo sapiens

<400> 5783

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aagaaaaata aagaaccctt aatgttaaac tgaattacat gttatcttct gattcttttc 120
aatgtagacc taaattttca catgtatcag taaacacaat ttatgttctt attaacattt 180
ttgaatctca cttttttgca tacaatttga catatatcaa tattattgaa tggctatata 240
acattctgng atagcactag caatacacca aaatttactt aaccatttcc aatcgttggg 300
cttttttccc ccttaaagtt atctgagtgg aactgctaga aaactttgta caaatagctt 360
ttctttcttt taaatatttt cctgggcata tgccactcaa agtgagtatg tcaaaagatc 420
agttataaag ccctttttat agncttctac acaggtctct taaaangntn ctaatcccca 480
tgntgntggt nttat 494

<210> 5784

<211> 485

<212> DNA

<213> Homo sapiens

<400> 5784

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caatttccca tcaagcctat attcttagcc tttagtttaa gtgtgggtta tcttaacagc 300
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caatgagttt ttctcttgat ctctactttg tgagaaggat acatttctag aaatttcaat 420
acctttcaag ngtcagaang gaatntatgg aactggtgga aattgcnang gnnngataat 480
aaggg 485

<210> 5785

<211> 512

<212> DNA

<213> Homo sapiens

<400> 5785

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aggaaagaca aagtaaacad taaacacaaa attgcaatta caaacatttt aataaaatgg 180
aatgagcttt ttaattgaag ctaatatgaa gtctaattct catggacagc aaaaaaaaaa 240
aaaaaaaaaa agtctattan atcaattatc accttacctt tttgcacana aatcttattg 300
ngaagtcacc atagagtcaa tagctaaaat tttaanactt tctttggcct tctgatatta 360
aacaatttat ttacaaactg ngatcagtaa ttcggggata ttgggtaaaa tgatcaattt 420
tttggtggtg ntggtaaggg ctttccatta aaaattggaa aaccacnttt gnanggttga 480
ncaggcttga aactaacttg ggtaanatnc ca 512

<210> 5786

<211> 542

<212> DNA

<213> Homo sapiens

<400> 5786

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atagcaagtg aaaggtcaga atcttaacac tgctattctg accacttgta ataccttctc 180
taggcttaag ataataaaca aattaagcaa gggatatgtc tttttatttt tccctttttt 240
gtttgtttgt ttgcttgctt gctttttctt tacgtagtat tgctgtgcta ggcacatggt 300
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attgttaaac atttatagtc aacaacatga tgtaaattat gacgacctga agacattgca 420
agataataga gtcacttgaa gcatcaaaga aagattaaaa tatgggtcatc tnggccctgg 480
actgcgaata ntggngggg ncnaaagcca gggaaacttt ggccanaaaa ggcagggtccc 540
gg 542

<210> 5787

<211> 541

<212> DNA

<213> Homo sapiens

<400> 5787

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aaccatgtct acacagaagt gggcaatgac atgtgccatt ctatggcaca cggngtgcac 120
ttaatcatca tgtttttagca ttttgatctt ctgcttatgg cgctcaattt ctttctgcag 180
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catcttaaatt tgaggnggag ccatcttaag aagaccaaag agcttattgc tttcaaatnc 480
cctttaaaan ggaaactccg aaagaatggg cccaggncct aatncctntg aggggaacac 540
c 541

<210> 5788

<211> 475

<212> DNA

<213> Homo sapiens

<400> 5788

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cgaccacacc cagttaactt tttgtatatt tagtagagat ggggtttcac tatgttgcc 180
aggctggtct tgaactcctg acctcgtgat ccacccgcct cggcctctca aagtgtgagg 240
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ataaccaca caccactgac aaccttcctt ctcatagct gaggtaggct aggaaagagg 360
aaatataggt accaactagt aacgaatagg ggaccttatt aataggtagt aaaagcttaa 420
actagattaa aagaangntc ttttatatta aatanccaat tnnatttta aggnn 475

<210> 5789

<211> 431

<212> DNA

<213> Homo sapiens

<400> 5789

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gactaataaa cccttcacc tggccatggt ggtggtgttc tctatggacc gaggcctga 180
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gagtgtgcag cctggcttgg gtcgagctct gtcacatctg gataagcaac tgggggctga 360
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<210> 5790

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5790

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 acttcagcct ctgattgggt gcagaaagca ggccgccact tcatttacac cgggtgaaca 180
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<210> 5791

<211> 553

<212> DNA

<213> Homo sapiens

<400> 5791

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 aattacaggt gcatgccacc atgccagct aaattttgta ttttagtag aggcagggtt 180
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 ctgctcgggt gctgtatcat tccaggcaag tcactttgtc ttgcattgcc tccaatttcc 480
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 atacctaacc tnc 553

<210> 5792

<211> 556

<212> DNA

<213> Homo sapiens

<400> 5792

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ttttggtaga acctttggca gcctttgaaa aactggggat ttctgaagat tatctctttg 540
gaaaaaggga tnnaaa 556
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<210> 5793

<211> 560

<212> DNA

<213> Homo sapiens

<400> 5793

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taataccaca ctcatgcctg tggccagtac tgtggctgga acatcatggg cgcacaataa 420
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atatgtgttg agtgggtgaa agcacttgca tcttactgtg gcaaacaggc caacaaaatg 480
cagatcatta gcaatggttt ggagaactag agcaaaaaaca tacattccat taatttggct 540
ttcattcccc cgaaagggt 560

<210> 5794

<211> 554

<212> DNA

<213> Homo sapiens

<400> 5794

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acgacgacga acaaaaaatt aattgcttgg aagacttagt tgaatctatc catgaaaaca 180
gaatcaatta aacatgtatg tgttacttag actaaatata aataacccat ataatggta 240
gctcaaacat ctcaagtgtt tcagagaatg ttagaatcta ttgtttgaag tgtctattgt 300
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aaaggaattc caagaaaggc aaaaatcctt tcagtaagtt ttctgaggaa aatgcacaat 480
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gctgctggat ttgc 554

<210> 5795

<211> 553

<212> DNA

<213> Homo sapiens

<400> 5795

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ctgggattac aggcaagcac caccacgcct ggctaatttt tgtatttttg tagagatggg 180
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gacctctcaa agtgctggga ttacaggcat gagccaccat gcccggcttt tacatgattg 300
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ggtattattg aaggagatg tcccttcaat atgggagatg ttccctttta ctctgactg 420
atttgtttgg ttggggcctt ataatgtcat agaaaatgtg cattttgagt ggtaaataaa 480
aaaaacagcc tatagttttt actctcaaag acttgggtta atataaggaa cngtantata 540
cccggttaa aac 553

<210> 5796

<211> 560

<212> DNA

<213> Homo sapiens

<400> 5796

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caggtccagc gacaatgatt ttagcactca tacagggtgc atttcggtca gtgcatgatg 180
attcagtggg cgaagcattt cagatccttg tctcatatca cacctcgaaa tacattcctg 240
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aaaatacagt taaatggcaa atgatgcatg aggaataatg atttacagtg aatatgttac 480
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aaatgccttc ttagataaga 560

<210> 5797

<211> 550

<212> DNA

<213> Homo sapiens

<400> 5797

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tggacattcc tctcactgac agatggggca caggtcaatt ccccttgaat ctagggacct 360
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tcatctaaac gatacagctg ccacctgact ctcactctct atactcgctt tggaatccag 480
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aggaaactgag 550

<210> 5798

<211> 498

<212> DNA

<213> Homo sapiens

<400> 5798

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tacagggtga tgccaccatg cccagctaatt ttttgtatt tttagtagag acgggggtttc 180
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cgttgaaaaa acaatgagtt ggtaggagaa gcctcggatc caaggacaaa gacaatatca 360
ccaaatagct ccaaaattac aatgaggatc agaagcctgg aaggatgggg tggaggtgag 420
tggggatcan aatggaaaca tctttcctct ctctagcggc cagtttgng anggcaaggg 480
actngngcca tncnct 498

<210> 5799

<211> 328

<212> DNA

<213> Homo sapiens

<400> 5799

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ctagcaataa agggngagca ttaagttttg ccataatngtt cacacatgta ggcgttttct 180
ccagtatgaa ttatcttacc tacaangaag ngngacaacc atttaaaggc tttatctcac 240
tcttcanatt tctaggattt ctcaccagta taattacttt natggttaga aaagttingag 300
gcgttgncaa aagtagncac atctttct 328

<210> 5800

<211> 563

<212> DNA

<213> Homo sapiens

<400> 5800

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aggttttatc ttaagtccaa ttcattattat tactggccca catgtagtca gagttcagcg 180
taattgaacc agatgttttt cctctttgca aaaaactgca tattttaata ctgaagttaa 240
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tgaaaaagaa aattatcatt tacatggaaa cagcagccct tttcaaaata attaatgagc 360
ctaatttatt tggcaaccca agttgctgac tttggtatit gatgctctga taataggatc 420
ctacaaggga atatgttttt accaattata tgtgaaacaa caggaaccta tttaaatgnc 480
tcattttcct tttaaatgca aagtttataa ctgnggatgt gaaatcaaat taaaggcagt 540

tgtganctta agttatcccc ccn

563

<210> 5801

<211> 554

<212> DNA

<213> Homo sapiens

<400> 5801

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 tttccagaca aggatttctg tcctactatg tctggtaatg gtgacacaaa gttaaggtag 180
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 tgttccttat ttccaatagc tatgtttttt gactttgntt ttctccttga agaacttgga 420
 tttccctgag acaacacagc cnggattacc tatattggna tgnttgatga cccaggttct 480
 gcctagnct cctttaacta ngacttcacc aaatgttccg cctgggcttc aacaatctat 540
 cagccttgna aaan 554

<210> 5802

<211> 548

<212> DNA

<213> Homo sapiens

<400> 5802

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 agttaattcc cacaggtata aattattcaa atagccattt atatcttaat ttacagtaat 180
 caataaataa gacggcacat tcatatattg ttataaaga tctttttttt tacaagcta 240

cagctatgta tatectaaat agacaaaaat aatccttgta ctacaaaata acatttcatt 300
 ttcctcaata gttttcttag agctctcagt aaaaactttc agacatagtc aattaagccc 360
 tgcacaatag ggaaacattc aatctgctca atagaccaga ctccccaaa ataaaacaat 420
 gatcaccacc cactacaata tggctctgaac aatctcctnt ccaagtttag ttaagtctgt 480
 cctgaggatg tacagtaggg gaacgaccat ttttccgngt tcacaatttg gctttggcgg 540
 anagaatn 548

<210> 5803

<211> 566

<212> DNA

<213> Homo sapiens

<400> 5803

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 accaatccac gggggaaagg ccaccagcac ccatcaggct tcccactggc accctgaaaa 180
 cctgcccagg ctgggccgcc agcgtcgtcc acaggccttg gccagcgggg gccctcaggg 240
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 aaagcacaca ggaggagggg tacatcaca acagagctgg gggcggtatg caggcagagg 360
 ggccacaccc accttggtga tctctctgtg tcgttctttg gttacgattt cctctaggac 420
 ctgcacctt cccttaataa gcctggtgcg ccccgcttca ggggccacca ccttgcggtat 480
 gatgctctgc cgggcattcc actcctnctt gggcatgggc ttcattgggt ggattcggga 540
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<210> 5804

<211> 563

<212> DNA

<213> Homo sapiens

<400> 5804

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ttacaggcat gtgccaccat gcccgaacta tttttatat ttttagtag agacagggtt 180
tctccatgtt ggtcagactg gtctcaaact cccgatctca ggtgatccac acgcctcggc 240
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agagacacat tcttctctca gaggctgct gngcttctgc taatacatgc agccttgggg 480
acttatcgac agcacaagc cagcatttct nctttctcag agaaacatta aggnacctgg 540
actggcgata gggttncctgg atn 563

<210> 5805

<211> 446

<212> DNA

<213> Homo sapiens

<400> 5805

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gaactattta ttttactttg ccagtaatat ttagacctta tatactttc attatgccat 120
cttatcttct aatgtcaagt gaacagttgc taaactgtct tctgcattta tcacattaaa 180
aatgtctttc ttggaaaatc ttcttgatat gaataaagta tcttttagag ccatcattta 240
aagcaggttt ctctccaaca cgagtctgct gaggtggtgt gagctgtgaa ctctggctga 300
aggctttccc atacacactg caatgacatg gtttctgacc agtgtgagtt acctgatgtt 360
gaataagggt tgactttcca ctgaaggcgt ttccacattc ttgacattna tagggctttn 420
cccnagnatg cattatcnga ncttna 446

<210> 5806

<211> 561

<212> DNA

<213> Homo sapiens

<400> 5806

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tactttttgt aatttacaac catctgtaat acctagtttc caagaacaat gcaacagaaa 120
cagaagtga gaggaggaggc acaacagctt ttaaccatct cagtctggaa gtggttccaa 180
aaatgtctct tccttttaca atctattgtc cagtagtcac atgggctcaa tctaattgca 240
aagagaagcc ccaaaatata agaggacatg tggatatttg gagaacttaa attgtctctg 300
tcacagaaaa aaaggagggt ccaaatagag aacaacagaa tgaaaacaac ttaggggcat 360
gggctggaaa agcttcccca aagcagtgc atttacgcta agatctaaag ggagaaagaa 420
ctcagccctt gnatgtttga aaggtaacca atatagtga gaggtgaagag gctaacacat 480
tattcaaggt ataaaatatg cattcctaac gnggcctgna taccatagat nctatttagc 540
ttngnaaacn tttatgggng c 561
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<210> 5807

<211> 559

<212> DNA

<213> Homo sapiens

<400> 5807

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gttctaatacc tttcctttca atttccttca acttgtcacg tttgatctta taaagctggt 180
caagggctaa ctgctgtgtg ttgtaggttt ctctcagttc ctttagttga ttgttaaaag 240
aatccatttc tgacagctta gatgcagttt ctttttcaag agcatctaac tgttctttta 300
gtctttggca taattcttcc ttttctaata attttttatg aagtaaactg acccctgaat 360
caggtgtggt actgaactgc atgtttttta ttctttcatt taataattgc ttctcaggta 420
ccagatagat aagcttattc tgatattcct gaagttcctg gtgaagtgtc tgattccata 480
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anttccaagt cacactgntt atccagaact ttcagctcag ctttggagtt gctttttgag 540
ccggacatcc ggaagctgg 559

<210> 5808

<211> 533

<212> DNA

<213> Homo sapiens

<400> 5808

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cctctatcag gttttgaggc ggggtgagcg ccgaggtagt gggggctggg agggtcgagc 180
cgtcaccttg ctgggtgttt tgcctgggt gttgggctgg gaggggtggc ggccgctgga 240
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ggctgtgaat gtcctggggc tgcacctgtg gctggacctg tttaacggct ctngcttcct 480
gctgcaactt nacctgnctt gggcccctng gaatggncce nggggctgnc ctt 533

<210> 5809

<211> 563

<212> DNA

<213> Homo sapiens

<400> 5809

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gtgatttggg aattcagaaa agcagctgaa gaagcatgga aacttccta caagtatatg 180
gccacagctg gctaagggtg gagacagtat tctatccttg ggcctcagac tcacatatgt 240

atgtacatac acatattatt cacccatatt tccttccttc tcccccccc catctgtaaa 300
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 aaaaagatca ggagaagcaa tctgcttttt aattttactt atgcaggtaa gttttttaag 420
 gatacagtca atttggtttg gcactttgga actaagaggg gatcnggtca taaaaaaatc 480
 taccaactct nagegaaact gaaatgaggt ngacngaaag ggntcccatn cataaagggt 540
 ttaaaaatta ccaagnccaa ttt 563

<210> 5810

<211> 318

<212> DNA

<213> Homo sapiens

<400> 5810

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 aacacttttc cagaatacaa ngctcaagaa atgtaagcca gatcccgctt gtatgaggta 180
 tcttaagtag tcagactctc aaaancagaa ngcagaataa ngngngccaag agctggggca 240
 ggcaggggga aggggaaaag aggagttgtt cgggtgggtat agaacttcng aattcangat 300
 ganaaagttc cggnggnc 318

<210> 5811

<211> 571

<212> DNA

<213> Homo sapiens

<400> 5811

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 aacaagtaac aaacatgggg gagtgtgaag gtccctgggt catggctccc tgagggtttc 120
 cctttcattt ctaagnggg acctcagatc tcttctccag accaaggagg ccccttccat 180

tgagaaggtc actcctccca cccagagat ctagaagcaa agttggggca caacaggtgg 240
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<210> 5812

<211> 553

<212> DNA

<213> Homo sapiens

<400> 5812

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 taaacttaaa ctttactttt aatggcttaa actagcacta aaatgtttaa tgtctcactt 180
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 tcaagtatgg gaaaaaggtc ctggagaata atggttccaa tacttttcat tggcatctta 480
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 cggacnnatg gng 553

<210> 5813

<211> 563

<212> DNA

<213> Homo sapiens

<400> 5813

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<210> 5814

<211> 555

<212> DNA

<213> Homo sapiens

<400> 5814

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<210> 5815

<211> 577

<212> DNA

<213> Homo sapiens

<400> 5815

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cttacaattt ccatagtcaa aaatcaaagg caaataagta atttcaattt ccctttggaa  480
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<210> 5816

<211> 538

<212> DNA

<213> Homo sapiens

<400> 5816

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acagggtgcct gccaccttgc cgggctaatt ttttgtatct tagtagagac gaggtttcac  180
catgttagcc aggatggctc caatctcctg acctcgtgat ccacccgcct tggcctccca  240
aagtgtcggg attacagatg tgagccacca cgcccgtcgc gcagttcttt atagcagcat  300

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gagaatggac taatatagta cattgagtgg agtgctgcta taaagagacc caaaaatgta 360
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acaggaaggt gtgggaaagg tttggaactt tctaagagac ttggtgaaan gggtttggcc 480
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<210> 5817

<211> 561

<212> DNA

<213> Homo sapiens

<400> 5817

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tgtcctgtca gacatacctc ctgccaccac gacgagctga atgaggggtg ggaanggaag 480
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ggaacctfff gggggtttng g 561

<210> 5818

<211> 564

<212> DNA

<213> Homo sapiens

<400> 5818

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 tctgcaaagt gagtccagaa cctggacttc tagagttggg gggtatncct aaacttcctt 480
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 aggcttcaan ttctggggan gagg 564

<210> 5819

<211> 564

<212> DNA

<213> Homo sapiens

<400> 5819

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 atttctttta aaaaacacta atactgtaca gtatttctgt gtttttagttt ttcccacagc 120
 tgttgaaaat ttcagccttg atttgaaaca tgacctgcat gacaggctat aagttgtcaa 180
 tagttctttt tctttggaaa agtacagttg tggcatttac tcactttagc agatagctaa 240
 aagggaataa taaggaaaaa tatacactgg acctgcagtt aagtttttga caatgccaaag 300
 gatcaaaaac agatgaaaca acatttgctg aagatgaaaa ggtattgcat tggctttaat 360
 agatgttgcc atctctgggt gaggatgctg actgagcctg ttctgtgtct tcacacctc 420
 tatttgnttc ttcttctacg acagaccttc aagagacaag atccatgtag taagccacac 480
 taagnccitt tgcccttctt aatctctgg aggctcttnc ctggggacnt ttgnccaaaa 540
 tacttaggtt accaatnttt anct 564

<210> 5820

<211> 325

<212> DNA

<213> Homo sapiens

<400> 5820

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acncggggag agattttaatt tacatagcag ccacttgggg nccagtcana gctggggcag   60
ngggggaatn tataacccca gagggtnccc cccanacccc cacccccggg agaccagtcc  120
tcaccaaccc ttgatgggc tccaaggtt gngcaaaana tgctccagtc aaaaggatag  180
agacatttgg gaataaggct gncccaagt tgggggaagt ccacggcctg gagnggnggc  240
ctacatgggg gccaggggt ctgananacc agtccatgtc ctgggcgagt cctcagcctg  300
ggggccctan aggaagcctt ngngg                                           325
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<210> 5821

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5821

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aaaacataat acatttttat ttctttaaaa acgtatgaca aaatttcttc tgccatcggc   60
catgctcaga ttatacatt ataaaatgat ttaattccct aaagtacaaa aaagaatggc  120
tgaatctcca aagagttgat aaagactgaa gatgtttata aggcatgctt atgtatacta  180
tttcaagcca tctacaggac ttgagacagg aatgtttagt gtttgcaaag ccacagtcac  240
tgagccagac tttgtggtga tccagagatc ctttcatttc acagaactgt ccttgacggc  300
ttctcccaat aaagatttac aaccttatct cttggctgtg gcagtatgag agggctttct  360
ttcagtacat atactaaagc ttcattggag tagccacgct taggaagtac caagtaaatg  420
acaacataag gccaaatgca ggcagcaggt atttttcaat aatgaattac aggggcttca  480
agaattcnac angagaaagn gattttcaca gngcttgaaa agcttganaa tgggattatt  540
gccaaannga aaagggt                                           557
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<210> 5822

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5822

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gatgcaacat tgcttttatt gggggttagg aacatatgac aaagtcacat aaaatgtcaa   60
caaagtcaca ctttgtgctt ggctgctctt taaaaaaaaa aaaaaccctg tttatttatg  120
aactcactca atgagaacta tgtgagatgt ggccaacaat tatcatgctt aaaacaggac  180
ggccagagcc atgaggagat tgaagtctga caatgctagc tagctaagtg gaaatttacc  240
attgtcaaat atcagatact tccacacatt tagatgtttg tccataagta gaccagctt   300
agctgactcc tttgagaaag aattgngtct caaaccctg ttattcagct ggccatatta  360
ttaatcatta ctaaatgccg gccacatgca aaggggatgg aaaagaagaa tgagatttgc  420
tcagttttag ctttctgngg ctgaagtatt tttgagtcag ttacatggat acatgaggat  480
tatagtaggg aaatgactgg atatttttaa aaacctaagt nctatgggaa caggcntggn  540
ttaaccattn ggncnna                                     557
    
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<210> 5823

<211> 536

<212> DNA

<213> Homo sapiens

<400> 5823

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gttaaaaaac atgtttatth tacaatatgt acaatcagga acatatttta aaaccattat   60
cattaaaata aatgaagatc ataaatcaca atttagtttg ttcttagtgt atatactcac  120
attaaaatat aaagaacata taccaaaaag agccaaaagt gtgcattttg ctaaaacctg  180
gtatatacat attccattgg aaaaaagcaa tcaaaaatga cttaaaccac aactaagttc  240
ctgtgatgtg tagtaaccat tatattgttt gtatgaggta gtaactaaat tattttggcc  300
atgtattaat actctaagtc aaaagaaata tgaaaaggat cataaaataa ggccaacaaa  360
agtaaaaatt ccaagagaaa tttgaaccac ttcactctat gggaatggta cagttcttca  420
    
```

gtgngatcat atgaaatggt tagtgaggac tctttaataa tgctaattaa ttctttgggc 480
aactgggaat tcntggncce caattggcng gatttctatc atgggacccg ttttnn 536

<210> 5824

<211> 507

<212> DNA

<213> Homo sapiens

<400> 5824

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tgctgagatt ataggcgtga gccaccgtgc ctggcctgca aactttataa acagaattct 120
ggctaaagcc tccagtataa atgggcaaag tagatgtctt aatttatatt atgctgctat 180
aacagaatat ctgagactcg gtaatttatg aagaaaataa acgtatttct tatagttctg 240
gctgagaagt acaagaccat gaggtctgca tctgataagg gacttcattt tacatcatcc 300
caggtcagag ggcagaagag caagagacgg tgcacactcc tttataacta acccactccc 360
aaataaagac agtaatccat tcacaggggc agaccctgca tgaccggaat cacctaatag 420
gccccactt ccgacactat tgcaccangg attaaggttt ctnacacca actttggaga 480
accntttca accncattan ngggncg 507

<210> 5825

<211> 529

<212> DNA

<213> Homo sapiens

<400> 5825

gagatgaagt ttccctctgt caccaggctg gaggtcagtg gtgcgatctc ggcttactgc 60
aacctctgcc tccctgggtc aagcgactct cctgcctcag cctcccgagt agctgggact 120
acagatgtgt gccaccacgc ccagctaatt tttgtagttt tagtagagac ggggtttcgc 180
catgttggct aggatggctt caatcttttg acctcgtgat ccacccgcct cggcctccca 240

aagtgtggc attacaagcg tgagccactg tgcccagcca gctctttata gtttaagagg 300
aaggataaac ctttaagagat cacaacacta tatttgtgtc agggatccac aagactgcct 360
ccatgtttgg agatttgcta gaaggactca tgggatcagc ttagggttgt aatgggctaa 420
gatttattac tgnaacatag natggatata tagnagaaag atctcaatgg caaaagacac 480
tgnccgagtc tggaaaaatt cctggaccgc gtttcttatg nggcngggc 529

<210> 5826

<211> 530

<212> DNA

<213> Homo sapiens

<400> 5826

aaccctgtgg cacttaccac ctatcctact atatatttaa tatgcttatt tcctactgac 60
tgccgtgtct cccttatcaa ggccaaggct ctcaaggctc gggatttgga tctcatttgt 120
tcactgatgt atccaaagt cctagaaagg tgcctgatac atagcaggcc tcagtacgtc 180
tttgtaaagt atcggaatga atgtatcatc aatcaaaaca taatagtttc catttattgg 240
atgtcgtcta tgtgccaggg cactgcatg aaaattttac aggcctgac ttactattcc 300
tcacaaaaat ctcccaagaa aagagccttt attatgacta tcttatgaaa aaagacactg 360
tagtcctgca gggccaatta agatgaccaa gaccaccag gtacagagt ggagaactga 420
gcctcagact agttctgtc aatgggaaca tgaccagatc ctgctggaag aaccnagggt 480
cgcttctggc aaataacgcc gcaacccttt tngntnatc ncttttcnn 530

<210> 5827

<211> 524

<212> DNA

<213> Homo sapiens

<400> 5827

ggctattgta tactaacatg atagaatgtt ttgatgaaaa acaggacca gtagaattaa 60

gcaaagaaga aaaatgtact gaaattttta caaatcagta ttaaaatatt ttggtagttt 120
gtttcaatac ttaatcttta aatctttcta attgtgttta tccacacaga tcagatttat 180
cacagatctt tattttttcc attatattag attttgcttc tgttgaataa aataaactta 240
tgatgaaaag tcttataaaa aaacatgtct ttgtttacct ttgcaaaatc aagactccga 300
atccagtcta atctgtctcc tcccaagcaa aaaatcttgg ggaaaaagct gaaatgctat 360
tacctgaaaa tttatgtaag attgtacatt tactttccaa ccagtctgaa ggctgaggag 420
tttgcaagga aagcaagaaa aagttaaaat gnctaaacca aagcctgact gggttcaaaa 480
ctaggtgctt aaataccaag ggcccantgg gcnnnttaaaa acan 524

<210> 5828

<211> 512

<212> DNA

<213> Homo sapiens

<400> 5828

gacaactgac ttgtcatctt tattaatfff taaaaatgca tgtctcctaa tatgaaaagg 60
ttgattttca ctttattgtg tgctttgcac atttacagca gcaacaggaa gagcttctac 120
tgaatagatt ttagtcttca aaaatgtgac tgcattctcc atctctagtt tgtccatctc 180
ccagttattg accaagatca catgaaaacc cattgcattc aaatgccgca ttttcatagc 240
aaggaatcct ctgggggtggc ttgaacccaa acaataagca gatctggaaa cacatagcac 300
agctactctt tgaatatctg tagcagaagt tgtatcacat cagaaagtgg tagcacttga 360
ttcctgttag tgtccattct gatttcaaaa tcaatatgat aattgtgtgg caagtgcaca 420
tcctttgaga agtgtccttc accttccana aggctggtca ncacctttgn cacctttgca 480
tttgatggg acnattgnaa gttccgcngg na 512

<210> 5829

<211> 531

<212> DNA

<213> Homo sapiens

<400> 5829

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 aaagttgtag tatcagtaaa ggtctgagat ggttcacttt tgtagattca attcagtgt 120
 ttttaaggtta acaaaggctg acattgaaat gtttaaagat aggcaaaaat tcacattaaa 180
 aaaaacccta tatttctatt tagagtaaca gtaggcagta tgattccaaa agttaaaaat 240
 tatttcacaa cctgtagctt cagcttggca aacagcttag attccaaaac tgattcatct 300
 ctattaaaat gtaagcactt aaaaaaagag catgtctgtg tatatagaca tataatttaa 360
 aggaatcaga taatctttga agcagcctta gtgtttcctt taaatttgtc tggaaatgac 420
 cattgnatta gcttcacaga aaggactngc ccagcttctt tggcttaagg ntaacatggg 480
 ngatcatttg gctnaagctt aaaaggnccc accagatgtt aaccgggggg g 531

<210> 5830

<211> 529

<212> DNA

<213> Homo sapiens

<400> 5830

aggaatatTT acaccacaga aatcagcaaa cactacaaat cagaactttt accccaaaga 60
 actagttttt aaaacattca ccaacacatc atcagcttca gtttcacct ctctcaaaca 120
 ggactaataa caccaaccct gcaaatatgt tgtaaggact tcaaataata tcagtaaaac 180
 acctagcaaa attctagtca cataaaaaggc acttagtatg tggatatag caaaaagtta 240
 tggactataa aatgaaatct ggctatatga aagtagagca taaataataa gtaatgcagt 300
 cattcatgta taagtataat aaagcaattg aacttttagta gaggtgccgg gtcctttagg 360
 atttttaaat gaaaagaatt aatacagaat tccatatact tttcctcaat taatgagaac 420
 aatcttcttt ttgcatcttc tcctattttc caggnttctt ttttaattatg anctcttggg 480
 gtcaaanttg gcaagcactt ctacctattc cattaaacna acngnttgg 529

<210> 5831

<211> 501

<212> DNA

<213> Homo sapiens

<400> 5831

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cctttttaga gactctgttg cccagactag ggtgcagtga tgcgatcatg gctcactgca 60
gcctcgaact cctgggctat atgcgatcct gccacctcag cctcccaagc tgagactata 120
gacccacacc atcacgcctg gctaattctt tttttctaata acatgggggtt ttcttacatt 180
gtcctggccg atctgcaact cctgggctca agcaatcctt ccgaaagtcc tgggactaca 240
ggtgtgagcc accacgctca gccttttttt ccttattact gtactaggga catttgtggc 300
ttttccacaa tgagacttag tagagaaatg acagcttccc tcggccctat cctgaaatac 360
actaactagc tcttctctgc cagggtacc gttttctccc taacctttgc agatgtatgt 420
atccatataa atgnttctat ttcaacaaac tgtagaaagn atncagnctg nacaggttcc 480
cttatnaagg tattaccngg g 501
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<210> 5832

<211> 516

<212> DNA

<213> Homo sapiens

<400> 5832

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aacttaggtg ctcttttgcg ctatatactt taattcatgc aaaagtgata gaggactgga 60
cttgaggctc tacagaggcc tttctgagaa agctgtgtag ctccttactc tggcgaagaa 120
caagggggtg tacatcttgt caatctcaaa agcactgact gcagtctcac cagttgattt 180
gtaagtaatg tgacaagaat gatgtatcca gatgagtttg ttgaacctct ggtgaccact 240
ggaacatagc tgtagcccca catgaaaact ctgatctgct tcttgtacag ggacacgacg 300
aaaatatctg tatttatagt caagtggttt ttcttctttt ttcttagtta ttacagcaaa 360
tactttggtc tgattgtctg tgtcttgtga caagcgatag tgaccagta gaattgcac 420
agtcctggna ttcttagttc ttaaactggg aacaatggac tgaggctctt taagggntgc 480
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aacatnatna catgggcctn gggaagnaac ttttgn

516

<210> 5833

<211> 521

<212> DNA

<213> Homo sapiens

<400> 5833

gaggctaaga ttacatacat ttccatgtat acatagaaac ttgttgtatt agtcagcttg 60
 ggctgagttg tgttgcaata atatcccca aatcttcagg gcttacaaca ataacggctt 120
 ctctctggct tgtgttcatt ccctttgaag atcagctgca gccctgctcc atgttctctt 180
 tatgatgaaa tggaccaaatt ccagaaacat ggctaataag cctgatgtca atggagcagg 240
 aagaatacct tctcacaggg agggccacca ggcaggccct ctccagttgc tagtgcattt 300
 tgtctgttgg cctcaaagct tggctcaaat tgtcaggcca atggaaagac tgaatgcttt 360
 gcctccaggc aaaattgttg cctgcagagg gtggaccctg cattgcatct caacgagaac 420
 ggaaagctca ctcagcatgc tgcagncitt catactgatt ttgacataaa acatnaggcg 480
 ggaattcnct tttggctttg cagnaaattg ggggngganc n 521

<210> 5834

<211> 499

<212> DNA

<213> Homo sapiens

<400> 5834

ctgagacaag agtttcactc ttgttgccca agctggagtg caatgggtgca atctcggtc 60
 actgcaacct ccaactcccg ggttcaagcg attctctcac gtcagcctcc cgagtagctg 120
 ggattacagg cacctgccac catgcccagc taatttttgt attttcagta gagacggggt 180
 ttcacatgt tggccagtct ggtcttgaag ccctgacctc aggtgatccg cctgcctcag 240
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gacccaaaca cagacagttc ccccaagttc aaaaccacaa cgagtagccc acacgaaggc 360
 atactctgag gggtgtttca ctgttacagc agtacatatt tcgaagagac aacagattcc 420
 atttcagatg cttctcaaga aagaaaaagt ctttgacaga atctctactc cangnctctc 480
 tctctctttt ttttnnnnn 499

<210> 5835

<211> 531

<212> DNA

<213> Homo sapiens

<400> 5835

gagacggagt ctcgctctgt cgcccaggct gaagtgcagt ggtgcaatct cagctcactg 60
 caacctccac ctcttgggtt caagcggttc tctacctca gcctcccag tagctgggat 120
 tacaggcgtg ccaccacacc cagctaattt ttgtattttt agtagagacg gggtttcacc 180
 atgttggcca ggctgggtct caattcctga ccttaggnga tccacctgcg ctggcctccc 240
 aaagngctgg gattacaggc atgagccacc gngcccaacc tatttttctt tatgtcttct 300
 gtagctcatg aaactatttg gactttctct ccctacaatt aataggattt tacttctatt 360
 tcattttcta ggcataaaaa tgctattgat ttggtgaat ctaccagatn gcaaggaatt 420
 ttagaacttt ttttttttcc ttttttcgga natagggggc ttactctgtt ggccaagctn 480
 gaacncaang ggggtaaact taagttactg gnaccttcaa tttnccagnt t 531

<210> 5836

<211> 552

<212> DNA

<213> Homo sapiens

<400> 5836

gagacagagc cttgggtgtgt cgcccaggcg acaaaagtgc taggattaca ggcatgagct 60
 accgtgcctg gcctgtctat atttttaaaa agcatttgtc ttaccttcaa cccgtgattc 120

caagtgccta tccaactctg aatctttttt caccgcttca tctgagacct tgggagcatt 180
 tgaaaagcaa actagtacaa tactcatgtt atctcgactt cccttgngta aacaagtgtc 240
 cactacccaa ttgcacacat tttccaggtc atcagatacc tcaagcctag atttaacata 300
 ttcacagagc tcctcattac tcataacatc ccagatccca tcacaagcca agatgataaa 360
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 tgttggggcc ttgccatcaa cacacttgta atcatagtcc cccagagcac gaggatactg 480
 ntaatggacc attaacacgg tggatcaata cgctgcttcc tggattttgg gntcgcctct 540
 tttccctggg at 552

<210> 5837

<211> 525

<212> DNA

<213> Homo sapiens

<400> 5837

canatggagt ctcaccctgn ggcccaggct ggagtgcagt ggcgcaatct cggntcactg 60
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 tacaggcacc caccaccacg cccagctaatt tttttttgta ttttttagtag agacgggggt 180
 tcaactgngt agccanaatg gtcttgatct cctgacctca tgatccacct gcctcggcct 240
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 gtatcttgng tctacatctg agtatatttg gttttcattc ccctgggagg ataaagtaaa 360
 ctggaaaagc atgaactccc canggaaatg tttctgtctc caggtatattt cctactctaa 420
 ttcaagtcct tccataaggn cctgacccca gcacaagtca ngnactaata gnaccttnca 480
 aatgaatncc ccagtttgaa ttcaangga aaatcaaata ccttt 525

<210> 5838

<211> 185

<212> DNA

<213> Homo sapiens

<400> 5838

gttgtttttg gtgttttttaa ttgtttttgt taatgtaaaa acagaacat cacagccgct 60
cagctctata acccatccag cccaagactg ttctagtggg gaaaccaaga gtagacagga 120
aggggacncg agggatggng ncgcttcagc tgaaccctaa gancnccttt ctnccttcc 180
tccgg 185

<210> 5839

<211> 480

<212> DNA

<213> Homo sapiens

<400> 5839

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gcatgtaaga caagtgcaga taaaaatgaa aaatgtgccg ggtggatgatc tgacagttcc 120
tgggatatca gtaacactga aaatgcctag aaaacaacct tttcccagtg ttgggggaag 180
ggttctattc ctgtagagtc caaaaacaat tttccacat ttgaaaaca tctggttgta 240
ttttggcaaa ctatggtagc tatcagcttt gaatccatat gtatttaatt ttgctggagg 300
ctggataatt aaaaccaata taactgaaaa taaaacaaca aaaagctttt ttcaccctct 360
aagagcatag aaatctacac ctgggttatac tggattccag ntgatatggg accagccagn 420
atactccaga antactcacc aatanttttg nntctaattt ccacnttata tcatttattg 480

<210> 5840

<211> 553

<212> DNA

<213> Homo sapiens

<400> 5840

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 taaataaata tctagttaat aaacttggac ttaatacctg cagccagcac tggtacagca 180
 cttcaagggtt ataagattgg attcattcat gtgtagtggt gaaagaatgt actcaaacaa 240
 ttaattaaga cataaacacc ttttctaaac tgtgctatag cggaagactc atccatgtag 300
 ataactctcc cttaatacca ccactttaaa aaaaaatcat caataacaaa ataaatcgtg 360
 ggtgaaaaaa tattttccaa gatctctgga cacatgaatg atctcaaaaa tgtacaaaaa 420
 cctctgtaaa ccagtactgn atccaatata tctatcaaac ttattagata ctggaacaaa 480
 actggagcna anggatatct ttcctacatt ctcccagagg cttaatatta aaattingga 540
 atatagngcn nnc 553

<210> 5841

<211> 541

<212> DNA

<213> Homo sapiens

<400> 5841

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 cctgaaaaac atggctctga catccaagat gcctgctgct ctgtccctga cttcagtctg 120
 aacccccacc tgcccacccc aaggccacgc agatgggttac tgtgggaaca atcccagcct 180
 tctatctccc cggggcctcc ctccctgctc tgcttcctc ccctgagcac ttgaaacatc 240
 gccagctttg ctaccttcag tcccgccacc acggggctct ticaaggctg tgggatcggc 300
 agaagagtaa ccaccaccgc atcccagaaa cactgcccag gaaaaactgc tccatctgct 360
 cctctgcccc agggccagca ggaggggaag gaaggggctg gaggtctctg cagggaagcc 420
 ttgggggttc tctgatatt gggactgctg cctggccagn ttctactctg ntgcaagaat 480
 ctggacaggc aagantactt tntcccccaa gggttttttn taacggttga gcttactggt 540
 t 541

<210> 5842

<211> 542

<212> DNA

<213> Homo sapiens

<400> 5842

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atttttttga gatggagttt tgcttggtgc ccaggctgga gtgcaatggc gtgatctcgg 60
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ctgggattac aggcatgcgc caccacacct ggctaatttt atatttttag tagagacagg 180
gtttctccat gttcgtcagg ttggtctcga actcccaacc tcaggtgata cgtatgcctt 240
gacctcccaa agtgggaggg ttgcttgagg ctaggagttt gagatcagcc tggggaacat 300
agtgaagccc tgtgtattta aaaaaaaaaa aaaaaaatag ctgggcatgg tgggtgtgtg 360
tctgtaatcc tggctacttg ggaggctgag acaggaggat gatctcttga gcccaggaag 420
ttcacaactg cagtgaggat atgaatcgta ccattggatt ggaccatttg cctggggggac 480
anaagtggga acccttgggg cttcggaaaa aaggttacnt ntaatggaat taattgggaa 540
tt 542

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<210> 5843

<211> 476

<212> DNA

<213> Homo sapiens

<400> 5843

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aaacacaggt caccatacac taattttcaa gtccgtatca gaaggaatat ctgttaaaaa 60
caaaaacaaa aaccatgatt caacagaaaa tgtgacagat tccttaggtg caactttaga 120
aacctaagtt tcaaaggaga aaaacagtag ttactccagg aattttaact cactaaccac 180
agttttatca tggctctgta agacagaaaa atggaacaaa atgtatatag ctgttggcga 240
tacgagcctt gnggctcaaa ttgcatacca aacatgggat ggagtaaggc tgatggctag 300
aggtaatcac ctctaagaga aatgaactgg gaaatgattt ataatctacc ctacanggat 360
atactgctag gttccattta gagingtcca gctttcccta tgggaaggcc caatgggagg 420
tcctantgc aacatnacag ggncttcctt attccttttt ttcngaagna ttaagg 476

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<210> 5844

<211> 548

<212> DNA

<213> Homo sapiens

<400> 5844

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 tgcataaact aaattggtat ctgaaaggct tcatagaaaa tagaaacttt caactttttt 180
 ttcctacaaa gaaaaacaaa tagtatccaa aatattaagc attaattgtt tgccaatttt 240
 ttcttaaata ttttacaac ataggaagggt ggttttcata atgttcataa caaagaattg 300
 catttctgct cttagcactg actacgtcaa tgacatcttt tgccttgtc ccaagagggt 360
 cagtttgtgt agccaccatc agagctatag gaggacgtgg gaccaagtaa agatgctggc 420
 tccttgca ga cccaagggtg nccatcatgn tcatgtgggg gcaccactac acccccaaag 480
 agcttctaag tgctttcttc antaatggnc catcagagta agtaggtttg ggctataaga 540
 aagccant 548

<210> 5845

<211> 543

<212> DNA

<213> Homo sapiens

<400> 5845

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 gaaaaactgc atgaaaaatt caaatatgca cagtaaaaac accacagtat gcacaggact 180
 aaatttttaa gcaagtgc at ggaatgctga atcaatctta cacacagctt ccaatattta 240
 actgatattt attttacttg aggatgatgt aaatttccaa aaagcatgac tatgagacga 300

taaaatgtcc atccttatat attttcgtat gccaaactagt agagtcctaa aaaattagca 360
 ttacaaaat acttggtaaa aatagctttt aaaagttgtc ccaagagata cntanaatca 420
 accccaattt ttcattggaca attcattctc cctcgggtatc tacagattca gttttcttgn 480
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 atn 543

<210> 5846

<211> 541

<212> DNA

<213> Homo sapiens

<400> 5846

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 ggattacagg catgcaccac cactcccagc aaattttgta tttttcatag agacaagggtt 180
 tcaccatggt gtctaggctg gtctcaaact cctgacctca ggtgatccac atgcctcggc 240
 ctcccaaagt gctgggatta caggcgtgag ccaccgtgcc cggcctanac tgtgcatatt 300
 ctcttgaagt gtgtgtataa taaacaaatt aacaaaaaaaa aaagaactgc tttaaaatgt 360
 atatttaaaa taaaatagtt ttaactcaat cccattttct gtgatatagt tagccatact 420
 ggtaatttc tcaaatacagg ttgactgntt tttctcaaat tgnatgagtc cctttgaaaa 480
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<210> 5847

<211> 551

<212> DNA

<213> Homo sapiens

<400> 5847

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 tacagggtgcc cgccaccgca cccggctaatt tttttgtatt tttagtagag acagggtttc 180
 accgtgttag ccaggatggg ctcgatctcc tgacctcgtg atctgcccgc ctcggcctcc 240
 caaagtgtctg ggattacagg cgtgagccac cgcgcccggc ctttttgnt ttttttttg 300
 agacagagtt tcattctcat tgtccaggct ggaagtgcaa tgggtcaatc tcagctcacc 360
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 attactnggc atgcaacacc acgcccagnt gatttttgga ttttaggta gaaaacnggg 480
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<210> 5848

<211> 535

<212> DNA

<213> Homo sapiens

<400> 5848

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 caacatgtat ttccctgctg ccgtatttgg ttttcttccc atctcgggga cccttttctc 180
 ttactgtaaa attgtttcct ccattctgag ggtttcatca tcagggtggga agtataaacc 240
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 aaaagtgtcc tgcggcggcc gnacagcanc gcaagctaatt ctcaaaaact tcttaacngg 480
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<210> 5849

<211> 130

<212> DNA

<213> Homo sapiens

<400> 5849

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ataaagagga aggaaggggt aggtggggag gggcnnnnaa cggngctgnc ccnttttctg 120
cattggctgc 130
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<210> 5850

<211> 547

<212> DNA

<213> Homo sapiens

<400> 5850

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actgtttgta gaaaaggggt ctcatctctt ttccaggct agtattctgc tttttaacat 60
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atagagctca ggaagttcct acaggtcaaa tcctttctct tccctttgcc tatgtatatt 180
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acttagcat actaaatggg ggatgttatg ttgnaagcc tttttcagct aacacaccat 480
taatcatgng gaagcttcgg gactgggatg gntggcttct ggctggatca tagtcaaaaa 540
nccgant 547
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<210> 5851

<211> 543

<212> DNA

<213> Homo sapiens

<400> 5851

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 tgtatatcac tatgcctagc taatttttga tttttttag agatagggtc tccctatgtt 180
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 attggaatta caggaatgaa tgagtctctg tacctgggtc cttcatgtat ttttaagatc 300
 tgataataag tgcttacact ttttagcactg tcttggtgaa ttttatcatt atataatgtc 360
 cctaattatc cttggcaatt ttggttgctc taactctact ttgatgaata taaaaatggc 420
 tttttaattt atttttttga gacaagagcc tactctggtg cccagggttg aaaagcantg 480
 gtggganctt ggcttaatgg cttncaaggt caagccaatt ntccggcctn nnccttcgggg 540
 gaa 543

<210> 5852

<211> 545

<212> DNA

<213> Homo sapiens

<400> 5852

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 ctagtggttg agagaggacc ctggctgggc ctggggagca ggaagccatc tgtccagctg 180
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 cagtgaagc aggaccacca aaaagacaca cgttggcacc caggaagtgc accagcaagc 480
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<210> 5853

<211> 542

<212> DNA

<213> Homo sapiens

<400> 5853

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acaaaaacaa ataaggattt ttatttgcag tactttccac tcttccttta aaaacttgcc   60
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aagatagtcc tccgaggtta caggcttgga agggcagaga ggagctacga accttggaag  180
aaaaacaagg tgctcaggaa tttatcgctt aacatttcac ttccccaccc accccttagt  240
gctcccactt tggcagtgat ctctctttgg ctttaaagag aaagggggaa atgtgccttg  300
ttttgcaggt gtgcaacaac acagctctgg catctcaagc agcagggggag aactctaaga  360
cagaagaatt tcttcatgaa aatcacgggt atgttatcac atactgtctc catggcccat  420
acaaggactc cttaagggtc tttctaacat accaacatat cccccaccaa ctcagnagag  480
aggtttcctt ccactggaat agaaaacnt  tggctcatta ttacaggctt aaaaancccc  540
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<210> 5854

<211> 539

<212> DNA

<213> Homo sapiens

<400> 5854

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ttcagccata aaagagaatg agatcctgtc acttgcgaca gcatggatgg aactggaggt  180
cactatgtta agtgaaatag gccaggcata gaaagacaaa cattgccatg ttctcattta  240
tttgnnggat ctaaaaatca aaacaacgga actcatggat atagagtaga aggatgggtta  300
    
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gtaaaggctg aaaaaagtag tagacagctg agataatggt ggggcagagg tggggatagg 360
ttaatgggtc aaaaaaagta gaaagaatga gtaaaactta ctatatgata gcccaatagg 420
ggggctatag tcaataaaaa cttactgca tattttaaaa tcngaggggn atcagggttg 480
gtttggaacc ccanggata atgttgaggg gatgggtacc ccatttttca tggnggggc 539

<210> 5855

<211> 548

<212> DNA

<213> Homo sapiens

<400> 5855

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gattacaagc gtgcaccacc acgaccagct aatttttgta ttttagtan agacatgttg 180
gccagcctgg nctcgaactc ctgacctcaa gtgatctgcc cgncttgcc tcccaaagng 240
ctgggattat aggtgtaagc cactgcacct ggcctgagac atccagattt cttctgatct 300
aaataacctt aaagtgttaa caagnacaac taagtaggct tgggacagaa aaatgaagtt 360
agccaattgn acttaaaatg tgacaattca nagaatcaca gggctacctg ntacacacta 420
gtttctatct gctagccaag gtgcacatta ngggtaaaaa ggataacaac ttcttagcan 480
taagtggaac aataataaan ggnatttcaa tccattacc aaaaatgnng atttggttca 540
aaaaattc 548

<210> 5856

<211> 428

<212> DNA

<213> Homo sapiens

<400> 5856

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 atggagtctc attctggggc ccaggctgga gtgcagnggc gngatcttgg ctcacggcaa 240
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 aggcacctgc caccacgccc ggntaatttt tngtatittt agtagagatg gggtttcacc 360
 atgttgGCCa ggctggntc gaactcctga cgtcaagnga tccaccacc ttantntncc 420
 aaagngca 428

<210> 5857

<211> 321

<212> DNA

<213> Homo sapiens

<400> 5857

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 ggatnctacg gaatgaaaaa taaaangngt tgactttcaa gtcaggatga ttnatttgcN 180
 cttaaaaata taattttctaa natgacatct gttttcaaaa acatcctaan ggtaaaanCa 240
 ggctacagga attgttgnca tcatgttgaa attttanatt ttatattanc attagcttaa 300
 aaatcataga cantancatt a 321

<210> 5858

<211> 477

<212> DNA

<213> Homo sapiens

<400> 5858

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ttacaggcgt gtgccaccac acccagctaa ttttatgttt ttagnanaaa cggggtttca 180
cagtgttggc cactctgggc ttgaactcct gacctcaagt aatccacctg cctcgccctc 240
ccagagtgcg gggattatag cgcaagtcac tgcaccaggc caaaattagn ttttatgcat 300
gcctaaagat gtttatgctg tagacttttt tttttttttt tgacaaagng ttngctctgt 360
tgcccaggct ggagtgcacn ggtgtgatct cagcttactg caacctcaag cttccccngt 420
agctgggatt acaggngcgc acnancacaa ccgggttaac tttttggatt ttannca 477

<210> 5859

<211> 572

<212> DNA

<213> Homo sapiens

<400> 5859

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tttactcttt aggttttcca ttttttttcc acttgtgcat tgttcctatg caggccctc 180
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gaatgcattg gctgaacca ccagctgaaa aatgaggang cnaattggaa ggtgggataa 540
ggcccatagt ttngcaagga tttggaaggc ca 572

<210> 5860

<211> 535

<212> DNA

<213> Homo sapiens

<400> 5860

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tacaggngca catcaccata cctggctcat ttttggattt ttagtanana cgggggtttca 180
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atatnaaaat gattttttaa agctcaatat taacnccaat tgaaagaaac ctaanactgc 480
anaatttggc cactntttca atttcctttc cnggttgggt tatggacccc aaatt 535

<210> 5861

<211> 478

<212> DNA

<213> Homo sapiens

<400> 5861

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cccggccaag actaaagtag gctttaaacc cgtaacaggt atgtgctcca agtccttctt 180
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cctgaaaaaa tttaaaaata aatcagctgg gcctgggtggc atgtgtctac agtcccagct 420
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<210> 5862

<211> 561

<212> DNA

<213> Homo sapiens

<400> 5862

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agaagttaac agcttttaaag nctcanatga cttgcctggc aggcacttta nttgggcca 540
aggttccttc ntaaacctgn n 561

<210> 5863

<211> 568

<212> DNA

<213> Homo sapiens

<400> 5863

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568

<210> 5864

<211> 566

<212> DNA

<213> Homo sapiens

<400> 5864

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caggagggca cgttttacct gcattgtcct ctggctctcc cttgtaaact aactggccta 180
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cttaccaagg tttaatagat ttcttgaata aatggctcctt catttggcta aggccttang 540
ccattttcca aaggttttaa aatagg 566

<210> 5865

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5865

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aattaaagca aaaaccaaag aagatctgag gagatccaag agatcaagac aatctgtaac 180
cagagtctga agtatccaag gagctactct ttttgaggca tattctcctc agcttccagt 240

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<210> 5866

<211> 414

<212> DNA

<213> Homo sapiens

<400> 5866

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 ctactggcat gaacttctgc ccaaggaggc atttgctgca gcaagagcac agaaggcact 180
 gtgtggatgc atgccagctg aaattgttat aggtcacgcg ctgcacttct gggtcgatgg 240
 cattgtggca tccttgacac accacagcgt gattcttcac atagcagggc ttgcacacgg 300
 gcttgnatt gaccatcacg tatatctccc cagctagaag gctatcacag tcaaagcagc 360
 agaagtgttt naggtgccaa ttctgntttt cngcctgggn natectcatn gcng 414

<210> 5867

<211> 572

<212> DNA

<213> Homo sapiens

<400> 5867

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gtgccaccac gcccggttaa tttttgtatt ttttagtagag atagggtttc tccatgttgg 180
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 ttaattttaa aagaacatgt tagccaggca agtggctcat gcctgtaatc tcaacangca 480
 tggaaggccn aagccggaag gacccaaang gcaggaaatc gagaaccttc tggctnacat 540
 aagggaacc atntttctta aaaaaaaaaa aa 572

<210> 5868

<211> 562

<212> DNA

<213> Homo sapiens

<400> 5868

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 cacagataaa agagtcacta tggctcagga cacaaggcag ggaggtgcca ggcctgtgcc 120
 cctgctgggg gagaaggagg ctgaggacaa agtgggagaa gtgctgggaa gggctgagcg 180
 gtaggggcca caaaagtcc ggtgggcaac actgtcggca ggtcatgggt ggagcttaca 240
 aaatttatat aaattctaga agaactaaaa ctaattttct atcagtctac attgtgtgta 300
 aggagggaaa agaaaacata ttgataaagt ttgcttcata ctctaaaata gccagtata 360
 tttcaacatg ccaaataagc aactgttgct tcctttttga acccttatag ccaacagtta 420
 gtgttccaag taagagtgga taaagtcacc caaatcaag ttctagtaag aagacatttc 480
 tttcaattaa acttaccccc ttntacagg aaatcanctt aacaagggaa tcctggcttt 540
 aactattann tggcccattt an 562

<210> 5869

<211> 548

<212> DNA

<213> Homo sapiens

<400> 5869

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gagacagggt catgcactgt caccttggct ggagtacagt gatacgggtca cggctcactg   60
cagcctcctg gactcagggt atctttccac ctcagcctcc caagtagctg ggactacagg  120
tacacaccac aatgcccagt tagtttttat ttattttatt attttgtaga gatgaagtat  180
catcatgttg cccaggctgg tattgaactc ctttgctcaa gcaatcccc tgcctcagcc  240
tcccaaagta ttgagattac aggtatgagc cactacaccc agccccaatg ttatccttta  300
agtataataa gattataaca tttcagaaat caacatgtgt tagtacaata ttttataaca  360
ttcaaagatg gaaactaaag taaatttcct acacctacct ttatttaa ataataggaaa  420
atcaatgtgg tggcataatc ctttcaaagg tagaaactta tgnntttaac tagctgatcc  480
aagacttgca tttgctttct gatgggtaaa gnaactacct ttactttanc aagnccattt  540
antaattt                                     548

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<210> 5870

<211> 423

<212> DNA

<213> Homo sapiens

<400> 5870

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gctgacctgg ctatcttaag tagttagaag ctatattata atagggccac actatggtag   60
cttaaaatta tagaataggg agattaaaaa tatcttacag ngtttattct aaatctgata  120
gtattttaca aggtgtgtgt gtgtgtgcgt gtgcacgcat gtgtgtgttg gagacagggg  180
cagctgatat tcatggcaac atgtagtatg tgccagtatc ttgaacaatg atatataatg  240
ctaagactca aatggtttcg gtttttaata cttttgtttt aagctcaggg gtacaaatgc  300
aggtttgta cataggtaaa gttatgtcat gggggttttt gtacaganta tttcatcacc  360
taggcnttaa gcctagtacc tattaggnat tnntcctgat tctnnccctc ttcctaccct  420
cct                                     423

```

<210> 5871

<211> 566

<212> DNA

<213> Homo sapiens

<400> 5871

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gaaaaaatTT ccaaatgcat caggaatctt acagtaccaa ctcatcattt ttcataacac   60
agatttatgt cttcaattgg agctatttag aaattggccc atagccacct gtaccctaaa  120
ttttctctgg gctacttggg agtatttaga gaaatgtgag atggtagttg atgaaaacag  180
agttcttcat cccaacagta acagctagat aactgactgc ttggccaaac atttgactca  240
atccagggaa tggaagatgc cattcaaagc cagattccag tttgtgttaa ggattatatt  300
tctgtcatca catttccttg acagtcccgc caactaaaaa tccccagca aaagcccagt  360
gattaaattc tcctggagca tatttttcca gcttatggaa acaatctgct gcagtgtctc  420
ctgtaatatc caaaggatag ttccatttct gaggtcgata tatggaagta gattactcac  480
aacccaatcc atcttccacc aacaatttga ntttgaaatg actatggaaa ggactggggn  540
aatnaaaatc ccatccctgg aanggg                                     566
    
```

<210> 5872

<211> 563

<212> DNA

<213> Homo sapiens

<400> 5872

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gagatgtagt ttcgctcggt gccaggctg gaggcaatg gcacaatctt ggctcaccgc   60
aacttccgcc tcctgagttc aaatgattct cctgttgaaa cgggtccagcc caggaaactt  120
gtgcaagcag aaggaggatg atagtggcct tcatgattta tctcatgtat tttcacaacc  180
agggaacctt ttaatccggg aatttgccac aggagccctc aaagctgaga tgtaattaca  240
ctaaatattc agcccaagta aaagagtttg cagggtgtgga aaggaggagg ggggnaggtgc  300
tgctctgtga ctaggttgaa aacctcctgc ttctactcca tagcacagtt aaatgattca  360
    
```

ttctccaagg catggaatag ttcttgcttt ataaaaatag tactgcgatt aaaaaaaaaag 420
cacttctgcc aaaggaacca tgttccaaca ccggaacaa ggtgttctgc ttaaacagaa 480
taagatcacc ancccatcc atccttncctt cctggcccc tccaactttg agttgggcat 540
tccaccatgn cccggggggg agg 563

<210> 5873

<211> 483

<212> DNA

<213> Homo sapiens

<400> 5873

caaataaata tcctttatta aagaaaaaga ggaatattgt taaaagcacc aaaactgtag 60
gttgttacat tgcatgtaca acaagagaaa ggtgattgca atacttggtg tccaagtact 120
taactctgaa gtcattgagt taaaaaacat gaaatacaaa gcaatacaat tacaatgcag 180
aaaagctgca ctaaagagca aaaggcaaca gtcaaaacga ttactggaga ttcatggta 240
ttgctataaa tgcttgctta gtttttcttc tgtactttta atactttagg atgttaattg 300
aacatattta agtattgtaa atttgcaaga gttggcattt acaatacact gtgcacactg 360
tccatttaat gtaatggtac taaagccatc cttacaagcc aagcaaagca caatgtgcta 420
gtgttttgc tctacctttn ataatttgc acaaagctag tnaatggnga nngagtttnc 480
nat 483

<210> 5874

<211> 584

<212> DNA

<213> Homo sapiens

<400> 5874

aactcagagt taactagaaa aatccctttt attaaaata attgtaaata ttgctcatta 60
atttcctgta cttgaaacat tttttctgaa cccctaagca ccacttagga tagatgaagc 120

aaacctgatg tgttttattc ttctctatta cctgagtatg aatgtgacat ttaactcctt 180
gaacttcttg ctccctctgaa gacatgaggt gctatcactg gatttctcta agtaagaata 240
gcagaagtcg ttttaaaaaa atactgcaga tagtttttct ttccaaattt tatgaaaata 300
ggtataggaa agaaaatctg aatgtccttg gtgtcagtat ccactctgctc catgcatcca 360
ggcagggctt ctttccattc ccaaagaggg gggcagtcctg cctaacaggg ccattgctac 420
ccaactgtgg gagcccagct cttanactga gggaaggtct gaacaattgg nggttcgtgg 480
tgaaaatata accctatcat aaaaccaaaa tgcngatgag acccancntt cataccttta 540
taaacccttc taccttaact tacctcggac cntttgnanc tctn 584

<210> 5875

<211> 668

<212> DNA

<213> Homo sapiens

<400> 5875

agaggtattc aaaaaattta ttgaaagcac tgtactagga gctgagaaca cgatgatgag 60
cacaacacag ttcttccctt tggaacata gataagtga gggaatgtca tcacaaatgt 120
aaaacttcac tatgagatga gttccgtgat aggattttct tagggaaacc tgagaaagag 180
ttgagactaa aggtatgtgt catatttttc acaaggcaaa actgggggaa tgacatatac 240
agaggcttgg gctagaaaaa agataccgtt agtccactta cttttgagac agttttggct 300
gctttccctc ttcagtgcct tgttttagaa ctgagtcctt actgaggctt gtaagatggc 360
tattatggga ggtgagagtg ttacaaaatg aggctgaaga ggtaggtaaa gaagccagac 420
cacttcaggc tccctctggc tttattaaag caagataaat ccatggtgga aaatcagatt 480
tgcaagaaaa ggtagttgaa ctaggttgct taattggtgn ctagacaaga gaccagcttg 540
gactaagtaa aantagtga ataagatcgg ttataggtgg atgacagagc cnacntagac 600
gtggtaan agggaggggc cctaactggt agngtgcagc ttgccactgn tgagcataat 660
gccctagn 668

<210> 5876

<211> 646

<212> DNA

<213> Homo sapiens

<400> 5876

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aggaaaacat gttctttaat aaacataaga gatagtcaag tctaaataaa ataataatga   60
taataataac agattctaca ccacagttgt atacacttcc agtgaagctt tatgcattcc  120
attctgagct cctaatacca ggtaaacacg aatcataggt ggaaatatgc catgttttagc  180
actagaagta acatcacagt ttattagcaa aataaagcag aaaatgatca aaatgatcag  240
gtaaataaat attacaacat ataatgtact ggtgatgaag ctgcaataaa gtaatataag  300
tgatgtttac aatTTTTTTT tTTTTTTTTT tTTTTTTTTT actgggaagg ctagttgtaa  360
acataaacat tctcactgaa ctactggccc cccaaaacct aacctatctc acaatcaata  420
atcatctttt gctataaaat cataaaaact tgnactctgg ggctcttttg nctgggacag  480
cttttctact ttctgacatc tnttgaagtc tttcttctca aacttcaagc tcaggcttta  540
tctcctgcca aaacctttcc tgangcttcc aggttctgtt aaaaccnggt tctttctttt  600
tttttttttg aaacggagann tcctntgtgn ccagctggng ggcagg                    646
    
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<210> 5877

<211> 644

<212> DNA

<213> Homo sapiens

<400> 5877

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agagcctaag ggcctgtatt ttaatgagaa aaaaaaaatt tccaacatag ttcgggtagc   60
tttgaatggc ctagtcaaaa aatacttttg gtatataaaa agcctgtacg tacaattcac  120
acctcagtga agcgccctcc ttgccttgag gctgggcctg ggacaaaggt ggcctcacag  180
ccagcccagg cagggagatc ggacagagagg ggtggcccct gaccccagct cctctgcccc  240
agctgctgct ccttggtggc ggcccctcct gacaccaggc gtctgccatc cttcaggcac  300
caaacagccc cgtctacctg gccctggtct gccctcacac cagtccaccc ccagcccca  360
    
```

ccccaaccac cctccgctgc acggcctcca gcacctgact ccattcaggg aactgaattt 420
gagcttgcag ggggtgagaac cacactgagc agcatgacag gctgtgagat cggaggagaa 480
gagtatatgc tgaggctntc ccagttgtca cttggcttan gggtcctggg gcccgtggnn 540
ccgcagtcca gccacagtgc tggcctgaca aatcagcctt aggtgactgg aacaggaagc 600
ggaaccccaa ggnggccaaac aaaacggttc tggaggatac ccct 644

<210> 5878

<211> 613

<212> DNA

<213> Homo sapiens

<400> 5878

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atggcaaaat gatagtcaca tcacactagg gagaaaattt taataagcag acaaaacaaa 120
atgataacat tgnccatttt ttcaaagcac tgacatacaa aagtgaaaag atncaacagn 180
gcacattttc agggtacctt tgtttactga agtctaaaaa ctctccacc tttaaaagtc 240
agcattattt cttgatggaa gaaaaataca cagtaacttt ttgatgtaat actaatatta 300
tngggttttc tttgcaaatt cctttagttc aagtattact aaagaaacat aaacatatgg 360
acattacaaa ttcagctaaa aaactaggta gtgctgacta tcctgtttta tggtaatata 420
tgtattaggt atttaaattt gattattata ncacaaaata attttaacat ggaattctat 480
aaagnatgta ttttgtcact ctacagtgcc tgcntttcca tgggtttttt ttaagangtt 540
catcaattta cccaatttgg ncatanctgt accaccggaa tngggcctnt aacccaaaat 600
ttncgtaaag gct 613

<210> 5879

<211> 596

<212> DNA

<213> Homo sapiens

<400> 5879

aacttttttaa ttcatttttca ttttaaattg ctcatgctaa tgaacacagt agtatggctt 60
 tacagatttc ctagacacaa tcctcaattt ggctcagact tgaatatacg tcatccaaga 120
 gaactttttc gttcctttctt aaggtgttta aaaaataaat ggctataaag tatggggaga 180
 aaacatttta gaataaggtc agagcacaca ttcagataca ctttggactc agatgtactc 240
 ttagagaact gtagagataa aatgctaatt atagtacatg taaacatctg ttcaaattga 300
 taaagagtga acataaaata ataggatgat attattgtaa cagtcgtctc cagacaggaa 360
 ctggtcttgc tcttgcagtc acaaagctaa attcaggcaa tgatgatctc tctctgctgg 420
 aaaaagagaa gactatttaa aaaaactttg aaaatagcaa ataaatctaa acttgaatca 480
 catcataaat ggcctccact tttctaacca ttaaaaangc tattggagaa agaatcaaaa 540
 tcaaagtga ggaaantacc caangntttg gctaaaanga tttaccaaac ctnttn 596

<210> 5880

<211> 653

<212> DNA

<213> Homo sapiens

<400> 5880

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 tgaccaccac taagttcagt taggttttct ttccaggtat ttcccaaggc aaccttgaac 120
 tccagaccat ccaaaacagt ttgacctct ggtgggtgcaa gcatagcatt agcaccaggc 180
 aaaagagtag aaaaaataga cccaaagtcc ttgttcacct ttgccatgc aatatttagg 240
 gcttggtttt tcttctggtc aaggtcttct atagttgtaa gaattttgga tttgtcattt 300
 tctacaattc tcttcttctt catcaagtca ttgtatcgct cttcagcttc tgtcaataca 360
 ttcatagctc tcatattgac atttcttcct agtttctcct tcatttcttg caacttctga 420
 agtctctgac cagcttcttt aagggttgta gttttgaaat cataggcact aattgggttg 480
 cccaaagagg gtctctctgc atcaaatacca gtcataatct tttcaacatt tnggatcctt 540
 gcagcaccat cttaagcct cccgttanng ttgcctnatg tggggccnaa ttccttattt 600
 taaccggaaa ccntgggttg gccctggggt ttgcccttng gaaataagtt taa 653

<210> 5881

<211> 645

<212> DNA

<213> Homo sapiens

<400> 5881

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aatagacatg gtctcaatac gttgccagg ctggtctcta actcctagct tcaatcaatc   60
ctcctgactt gtcttccta agtgctggga ttacagggtg gagccactgt gcctgggtctc  120
acttttccaa ttctaaagaa tgtgttgtgt aagccttccc ctcaacaact tagtgaaagg  180
tgaaaaaag gtttggaat aaaagcatct gatgtttgaa aaagtacttt gtgaagtaaa  240
tgcactaaga gttatctgtg tattactgca aacagggtgaa catagtaaaa acaaatgaac  300
ttactgcaag tagctcaaca tagtaaaaac aatagaaatg tttggcttta cccatcagcc  360
aaataaaaa atctccttgt aaggttaaaa ggatcgaaat gtaggaagac cgtgaatatt  420
caccaaaacc cttcatcttt tcaatttctt catctgtttc tgggctgctc attttgatg  480
ctttaacttg gttactacta ccagtatctg ctttaanata gtttggttg ggtatctaac  540
aaccgagac tcttgaattg gcactgcat ctaagtctaa nggtttatgc ttaatgattt  600
gnggggacta actggactac ttcangaatn cagnggtct accat                    645

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<210> 5882

<211> 540

<212> DNA

<213> Homo sapiens

<400> 5882

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aagtattgaa tagagagaat cactcactac ccaataaatc ccagggtggg taagatattt   60
cccattttca gatgagggtg ctaagggtca gaaggatgga ggcccagccc aatgctactg  120
acacagctag gattcagtat tgggtagaga atctctatcc agtacttaag gggtgtcaaa  180
aaaaacagca tatgaaaaag aatgcctgct ggagaaggaa gacaacacaa cagaaagcag  240

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agatgggaga gatttcaatt cttgaactcc tggcctgaag tgatcctccc acctcagcct 300
gagagttgaa ttctgatgac attgtttgaa cccctagatc cagctttacc tgaagctaaa 360
tgcgctacta aacttctcag tttaaaaagc ctataaatcc tgctgnttga gtcaatttct 420
tatttgcaac tatgntctat tcaattcaaa gccttagggc tnancccagt taaactgctt 480
ctacanttct ggtggatctt tngactnatg aaacctaate tttcgnttta ccaengtcca 540

<210> 5883

<211> 479

<212> DNA

<213> Homo sapiens

<400> 5883

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tatgggaaac tgagtcccag cccagggaa ggagaaggag gacggaccag ctggcagccc 120
gcgagaggtc acaggctcagt ggccggaccc cagtcatagc cgtcttcacg ggaggactcc 180
gcatcatgga ctgcgtaaa ctttttcttc agggcttccc gttcataggt tcgcatgctg 240
tcctgtcgcc actgtccctg ggggtggcgg ctgtccacct gggccccctg atgagccgag 300
attctccac gatccctcgg gctctgggac tcatctgcct gcacgggctc cgaggaccgg 360
ccagggtg acccgggggc tcatcatcan atccgtgtag ggccccctt gccgctgtgt 420
acccttgca tccgtgtacc cncgccttg ccgccgntt gnaanncctt gtaaccccg 479

<210> 5884

<211> 429

<212> DNA

<213> Homo sapiens

<400> 5884

actaaaacag aaagactttc aggaaaatgt catttaatga tttcagctat acattacata 60
tacaactctg tagcctagca acaatcattg ctacaccatc attaacttta aatattttgc 120

ttggtgagct attctcaaatt gtagcacatt ttaagatttt gccatcatta tgactgtgga 180
atcattgttt ggttttcata ggaaacagat ctgtcacagt atgaagcttt gtttatttta 240
agaaactggt acacaattac atttccactt acaagagaac gccacagata taactaaagg 300
caggcttcga tggctccnca aaggttgcgt gcgggaccaa cccacacct cctngnttcc 360
ccgtcgaacc gccntgncca ggttnacatg gtttcatttc cagagatgct ttgnttttcg 420
naagttagg 429

<210> 5885

<211> 632

<212> DNA

<213> Homo sapiens

<400> 5885

caaccaccaa agctgtaact tttatttgcc aatagatatt ttaataaaca ggcttactcc 60
atctgtaaga ccctgataat gcctcttagg aaatcataga aaaataaaat acaataatta 120
gtaatttgta ccttgtaaca aaatcttatt atgttgctca gcaggtagtt tgctaaacag 180
catattcttt cagcaaatag atgacatatg ttatgcaatt caccacaaac aaccctcat 240
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tacatggaaa gttattaata ttatagtaga tttttgtaag ataaaaatag taccaccttc 360
aaataagtct ggactacttc actgctatag taaagtagat aataggtagg attgcagttc 420
aattgttaac acctttttac cttgtttata gctctaccat attgngatta taaccagaaa 480
agagaatgta ngctgtgtca ggaacctgag tggaaggcat atattgaagc tttaaagtgt 540
gacagaatac taangagaaa accttaaaca gngctatact tcctatctca tagataaatc 600
ttttnccctt tgnaagacca atgggncaga gt 632

<210> 5886

<211> 494

<212> DNA

<213> Homo sapiens

<400> 5886

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 ctgcaatctc cgcctcccgg gttcaagcga ttctcctgcc tcagcctccc aagttgaatt 120
 acaggagccc accgacacgc cggctaattt ttignatttt taatagagac tgggtgacag 180
 agcaagatcc tgtctcaaga aaatgataat caattcaatt caattcaatg cagtccccag 240
 atcacgggt ctgtgctcag caaacttcat cacaacggga ctgatgtgga tcagagtgat 300
 gaccattca cggatgagac acttactcc cgcctgcct cccagatgct aaggagggat 360
 aatccaagtc tcagccttcg acagtccttc ctccagacg gcnnnggntg gtttttctct 420
 aagtgctttg ccattcaaga gcnaccaacc ccaccantg gcntggacta agagggaat 480
 tanttttttg gaac 494

<210> 5887

<211> 448

<212> DNA

<213> Homo sapiens

<400> 5887

atcttgatat tgnttattgn ttacggttat gacacattat atatatacac acacacacat 60
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 ttaagagagt ttgttaaaaa tggagattct ggagccccac tctgtgagtc tggacgatag 180
 gtcctacatt tttaaatgcc cctgcctgcc cccaaggtgt ttttatacag atggtagact 240
 cactctgaaa aacactagaa cataattct taaaatatca aacattgaat tctgggtatg 300
 atcattcttt tttggtcagg gacaagaaaa aaactgtcaa agacaactga gattttgagt 360
 ccaggtagcc cggaggaggg aaaagtaata cttacaaaaa taaggntgg aatgaaaaag 420
 ggagaagnnn ggataccnan nggttttt 448

<210> 5888

<211> 540

<212> DNA

<213> Homo sapiens

<400> 5888

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aggataatta aaactacttt gaatttttta tttatcaatc tggtttctaa tataatttta 60
gttaaatagaa agacattcac aaagaatatt aggcatatcg acataatttc cttctttcat 120
tctagtttac atgctgttgc ttttagagag tgaaattttg tgttatttca caggggatgg 180
aatcctgttt gactttacag aaagaatatt tagcccagct tttcacagca ctaacctctg 240
cagtcaccac gctcactgaa aaaattttaa aaacctgaca aaataaaaact tagtaaaatc 300
tagaaacttg aattcaattt aataattgct gccctttttt tgggaaaatt gctcaacagg 360
gtggtgaaaa gaaaaaatgg ggggtttcaa attcagtgtt gnttggaggc atgagacata 420
aacggccatt aaaacgttta ctgcgtaaga acnaggatata atggggngag gaaaaggaga 480
aagaaaaaag gtngattgaa aagaacngat ttcttccttg aanggaagna aagctttttg 540

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<210> 5889

<211> 570

<212> DNA

<213> Homo sapiens

<400> 5889

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cataaaggaa aacaaaaaac aaaaaaaca aaacaaaaca aaaaaaactt aaggtatgtt 60
tcctgcaagc aaaatggagg aaaaggatatt attgttgtta ctatgattat taagccacag 120
acacataaaa tccacaaaat ggattggtgg ctttggaat gcaataccgt atcaaagggtg 180
cagactgttt caaatgttct ctacatattg ggctgaaaca agaaccacaa caaacttcaa 240
cccatcagc gacgcaatgc tcctgtgacc ttggtgaaaa catcgtcgtg accagctaga 300
tccaggaatc cttctctaga gacacgtgga aacgtcccat caggtaggtc ctcaagtcca 360
aggtgggggtt gaagggtctt ggcttgtccc agggcaaagc acgtgcatta ttggaccaat 420
ttctgaatag aattttatta atatgtcnaa tcaattccag gcacttgaaa tggctttggc 480
tggaataacc caacatngca agaatatgga ttcacagagc attcagccca agctgggttc 540

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ancangcaag ggntatnggt ccttnangct

570

<210> 5890

<211> 485

<212> DNA

<213> Homo sapiens

<400> 5890

cttctcctta gaggggggtt tgccctcctt accttctca ctgctctcct tgggtccggc 60
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gagcttgggg ggtgggggcg gctcggcagg gccctcatcc tcgtcagtca catcggaggg 180
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ctccgacgag gaggcctgnt acccttcccc ggntccatct naggaggggg cctgggtgctg 360
ctgcgctttt ccggacctgt gcgaacagag acaccgcctg gccagggggg tcctgcggcc 420
ctcgnggaag ctgccccctc cgnggtttaa aactggtntg gaggaccact tggctntggn 480
tntna 485

<210> 5891

<211> 572

<212> DNA

<213> Homo sapiens

<400> 5891

gagacagaga ctcgcccagt tgcctagact agagtgcagt ggtgcaatca cagctcagtg 60
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tacaggcatg caccacgacg cccagctagt tttgtattt ttagtagaaa caggattttg 180
tcatgttgcc cagtctgggt tccaactact gagctcaagc catacgccct cctcagccct 240
ctaaagtgct ggggttacag gtgtgagcca ccacaccag ctcattttaa tctgtttaag 300

gattaaaata ctcccaactt caggtatgtt ataaatgaag aagtccattt ttcttctatc 360
ccacataact ccctcaaaaa aaggaaagta aaatgaggaa aaagatataa gtanaaaaga 420
aaaatgggct ttaaggggaa tacataggga gccatttata tagctctggt tgacaataag 480
gtggggagaa atncctagaa gctaattnta ggggaaaaga tgnaaatggg gggnatggcc 540
actggnttgg gttggtcttg ggttccacca aa 572

<210> 5892

<211> 579

<212> DNA

<213> Homo sapiens

<400> 5892

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agtagctggg attacaggcg cacaccacca cgcccagcta atttctgtat ttttagtaga 180
gacagggttt caccatgttg gccaggctgg tctcgaactc ctgatctccg gagatctgcc 240
cgctcgggcc tcccaaagtg ctgggattac aggcgtgagc caccacgctt ggctggggca 300
gcttttcttt aatacacaaa ctgaggaaat gaccctgcaa atttcagggc ttagaaagcc 360
ttcatcagga atcacagatg aaatgcttct tgggaaattc acatgacaca gngccacgtc 420
atacctgctc tgcagggcct catgggggtg atgtacacac agcgcccctc cgagctctgc 480
agcagcattc caggatggca aactntgcca aatagttttc cgttgccggg gggcccca aa 540
aacacnttgg nncnctgggg atacagggtg aacctggnn 579

<210> 5893

<211> 595

<212> DNA

<213> Homo sapiens

<400> 5893

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accataatgc cgaagaagtg acatgaaggg gataaaagtc taatgctttc atcttcacag 180
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agggaaaacg caagaggata ttataacaat cagtagcagt attgtataca atttaaaaat 300
tccattaggt tgagccaccc tcactcctct ctctggctct ctcccatctg aggtatagca 360
ggctggaact aacagaagct agtaagtcng gagccttttg cntttggagt ccactgagat 420
aagtgagtgg gcaaagtctt ggaagaccag ataatctggc tctggtgagg cacctacgtg 480
cacantgtcc cattatggaa gttgacaaca tactcagcat tagtcctntg cccagaaatn 540
ncgaaaggct caaaaggggtg aaaggtgaag gcnccaaggg gnnncnctgg gggtt 595

<210> 5894

<211> 542

<212> DNA

<213> Homo sapiens

<400> 5894

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ctgtgtcttg cctcttctgc tttctgctga ctgctggcat tccttggctt gtggccatgc 180
cactttagtt ttcaaggcca gcattctcag ttgtttctct gctccgtcgt catatgacct 240
ctgatatggt ttgggtccgt gtccccaccc aaatctcatc tcaaattgta atccccataa 300
tccccacctg tcaaggaggagg gatgaggtgg aaggtgattg gatcatgggg gcggtgtccc 360
tcatgctggt ttcatgatag tgagttagtt ctcacaagct ctgatggttt tataaggcaa 420
gtttttcttc tctctctctc tctctctctc tctctctctc tctctcgcct gctgcatgt 480
aaagacatgc ctgcttcccc ttctgncatg aatggnangt tcatgangct ttccanncca 540
tg 542

<210> 5895

<211> 481

<212> DNA

<213> Homo sapiens

<400> 5895

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gtggaaacaa ggatcttgcc caggctgttc tcaaactcct ggccctcaagt gatcctcctg   60
cctcagcttc cttagaacc aacattcttt agggattggg ggcaaagttt ttttaaagga  120
atataatgtc caagttatit tgntataata gtctgatctg tatttccagn cttccatcta  180
gtatititata ttaagatcat gccccacac acatctactg tatgtttcct taagttctag  240
attcaggaaa actaaattac aaaaaaatca aaatagtgtc ctgactctgg agggaagggc  300
agagttgact ggcaacaagg gaactttgag gtaagagtaa tgttgtatac cttgatcaga  360
gagtgggaatt gtctgtgtat acacttaaaa tgnatggggt tgcccggcgt ggtggctcac  420
gcctgnaanc ccagcactit gggaggccca tgtggcanat caccagggca nganatcang  480
a                                                                 481
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<210> 5896

<211> 468

<212> DNA

<213> Homo sapiens

<400> 5896

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gagatgtagt cttgctctgt caccaggct ggacatggtg gtttatacca agttcctgta   60
aacaggttta aagtatcaaa tgcttataaa tgaattitita aaatatgaaa attagagaaa  120
atgaaaagtt attcctgtaa taacttgcct ttttacttg tattttcata tgcttttagtc  180
agaaaaggct agtgaagcat ccaatgcaca ggggatgcat gtaaaggact gtgaaccact  240
attcagaata gtctcctaaa cacacaaaca ttatccatga acacacagcg gtctaaaatc  300
caggttgatt tctaatactg tcaattgctg actgggcatt ctaaggcatt ttaaatttat  360
acggtttagg ttccacaata taattaacct attcaggtta actatattat attctcaata  420
atactititit tttititctt ttgagangaa ancttgntnt gnncccan   468
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<210> 5897

<211> 567

<212> DNA

<213> Homo sapiens

<400> 5897

aacagcttgt actttattac atatgcaacc ttgccatgcc tgccagttaa ctccccctccc 60
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 ttctgggctg gagtagtggt gcccctcaag caggcaatgg gcagggtgag gtgggcataa 180
 ccctcaggtg acacctggca gccccccagc ggatcccccc gtgcagcatc aaagccagct 240
 gagaccagca ccagttttgg gttaaactcg taggcaatgg gaagcaccag gcgatgccag 300
 gcagctaggt agtcagcatc acccatgcgg ggcccgttcc atgccacgtt gacgggtgaag 360
 cctgtgcccg cagcccggcc gatctggctg ctggaccctc atcccatgg ggaaagaagg 420
 tgccatgatc atagcgggtgc anggacacat atagcacact tggggtcac ctcaacatgt 480
 gctgagttcc attaccgggg tggacattcc aatccacaat caggatccga aggcattgcca 540
 ctgatagctg ggcatctggca acancct 567

<210> 5898

<211> 563

<212> DNA

<213> Homo sapiens

<400> 5898

gcactatata gatcagagtt ttacggcaa tttttccaaa aggccagagg agttttttaa 60
 ttctggtatt.ataatTTTTT tggctcttc caatttaa atctgtttc taggcaaaac 120
 agtgtgatga agagtaaaat gtccctgaat gaagaccacc atgtggcccc tctgctgtcc 180
 ttataacctg gcagtctgcg atctccaatc ataagccaac agcatgatgc ctggggctgc 240
 ggtgcccaca gcacgcgggc tagaagaagc tctcagcttt gatttagtgc tccctgaacc 300

aaccaacctt ctttcaagct gcttttcatg agaaagtcca gtccagagca tcagccacag 360
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 acacaggtga agcagaacac caaattgctt ttggcaggaa acaccactgg agaagtcaag 480
 aaatctaaat tatgttgagg ccctgaagac aaggacactg gagncttaca gacggaggac 540
 ctgnacttag gaaagcacct gtg 563

<210> 5899

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5899

gaaagaaaaa ctatttattt ctttatacac atcttgctta aacaatcacc aaaaagactt 60
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 aacatatata aatctatata atatatttat acacacaaac acattctacc agcactgtga 180
 agacacagac taggcctttac taggccttggg gcctctccca tgccacttaa aaatgagcac 240
 aggtttgctc tatgcaagaa tttcaacaga gttggctctgg ccatcagtct gcaatttccc 300
 cgagataaga taggggtgaca aaatgggaca gcaactttga agtgaggtca gtccaatttg 360
 gatatcatag aagaaaagaa ataggatgtg ctaggttaag cctgagatgg tatctgggaa 420
 atcaccatt catgatgtga actcaaagac acangtgcta cagtggcaga cccaagccca 480
 acctgctnga ccacangggc aagtgtggac tgggaatant ggtactgggn ccccccnaa 540
 atgtccggan gggacct 557

<210> 5900

<211> 545

<212> DNA

<213> Homo sapiens

<400> 5900

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 actttcattg tgcattccaga aaataaaaag cacaagtata caggttttagc tcaacagctt 120
 attcccttat aaagaaaaaa aaagttttga attaaagcta gtttatcttc agtgtaaaaa 180
 cttggaggta taaacaaact caagatatta tatacagtaa attaatttac atttccaaac 240
 ttgcacagta cagcatttta aacaaagtaa atgggtctcat ttcagctctc actgttaagc 300
 ataatccaca tcccaatctc agataaaaat ttcacaatat ataaatccat tgagaattct 360
 gtacacaaat acgagttata gaaatctgat ttcaaataa aatacaaaaa ttgtcatgac 420
 cttacacgtt acaacagctt atttttctat tggaatttta aaaaatcata gaaaaatatg 480
 tcaatgcaca ttactgnta tgaccaangg catgaacctt gggnctttna ancatccttt 540
 nanaa 545

<210> 5901

<211> 167

<212> DNA

<213> Homo sapiens

<400> 5901

aaagttttca gactttat tt cacagcgatt gacacagaaa catactagag ttagtaaacac 60
 ggcacccagc cccaccgccg cccgcttcat cgggtcctgc tcctaggagg actgggctgg 120
 ggctgggggt ggggatggga tgggggtggg gaaggacgg nnnnnnn 167

<210> 5902

<211> 530

<212> DNA

<213> Homo sapiens

<400> 5902

cttttttagag acggagtctt gctcttttgc ccaggccgga ctgtagtggc gctatcttgg 60
 ctactgcaa actccgcctc ccgggttatg ccattctcct gcctcagcct cccgagtagc 120

tgggactaca ggcgccccgcc actgcgccccg gctaattttt ttgtatttcc agtagagacg 180
 gggtttcacc gtgttagcca agatgggtctc gacctcctga cctcgtgacg tgccccgcctc 240
 ggcctcccaa tgtgctggga ttacaggcat gagccacccc acccagaaat ctctttatgt 300
 ttaagaagag gaaagtgaag aacggaaagg gaagaaactg cccatcctca tgggtaactg 360
 agaggaggga tggggagaga gacttcctc tttcacttcc tatttttttc tagctcccag 420
 cntttccac tggcctcatc tggttcattt ggttcaaggt ctaatgatgc attttgctgg 480
 gncttttcca attcttaatc ntgtaagggn ggaggnaaaa gngtgagtnc 530

<210> 5903

<211> 551

<212> DNA

<213> Homo sapiens

<400> 5903

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 ttcctttaag atgtgcttca tcctcactca agctgcttgc caccctccga tttctggtec 120
 agtctactct tgttactctt caccatgtag atgaagtagg caagggtctc tttttcattc 180
 acaggtatgt tcctgaagtg tcgactcaca gtttctgcta actgggcctt attgaagcct 240
 ggtctggtct gcaacttgta gtgtcgttta taacgtcgta ggggtgttcac ctgcagctgg 300
 aacagatcaa cctcaggaat gtcagtgtcg tgctcgggag aatctccgcc atcgtcactt 360
 gtcttctctt tccttttatt tcggacactc tggatgaaat ttttgtgaaa atcacagata 420
 tataggtgcc ttacgtctct gccgatgtcc agcttgagtt cttctgcgag atgctctttg 480
 gaccctcttg ctgaaggaag cgttgccccg nggccggacg canngcttgg ccgnnctcga 540
 tgaaggaana n 551

<210> 5904

<211> 564

<212> DNA

<213> Homo sapiens

<400> 5904

ccgagacaga gtcttgttct gttgccca gctggggtgc aatggcgcgga tctcggctca 60
 ctgcaacctc cgccctcccgg gttcaagcag ttctcctgcc tcagcctcct gactagctgg 120
 gattacaggc gctgccacca tgctcggcta atttttttat ttttagtaga gacgggggttt 180
 caccatgttg gccaggctgg tctcgaactc ctgacctcgt gatccaccgc tctcagcctc 240
 ccaaagtgtt gggattacag gagtatatga atgcttttat ccacaccact aagaagagaa 300
 ttgaacatgt tttgaaaaca caagaggaaa ggcagaaact tcattacaaa tattctaagc 360
 agtttctgac tttgtttcaa gattggaaca cgaacagtga aggctgagga accagaggaa 420
 caaaaactag ctacaatgtt tcgagagcaa caaaagagtt gnctataagc tanaatgggt 480
 taaaagacng agaccctgga accaattaaa ctggaatcag caatttctac ggggttggag 540
 gacttnaana gaatttnaat tctt 564

<210> 5905

<211> 561

<212> DNA

<213> Homo sapiens

<400> 5905

gagatggagt ctggctcaat cgcccagact ggggtgcagt agggcaatct cggtcactg 60
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 acaggtatag tctgtatacc tgagattaca ggcgcccacc atcatgccag gctaattttt 180
 gtatttttag tagagacaca gtttcacat gttggccagg ctggtctcga actcccaact 240
 ttcagtgate caccatctc ggccctccaaa ggtgctgggg ttataggtgt gagccactgc 300
 acccggccag ctcatctctt tttggtgctg attgatttcg tttgtgtcac actggctggc 360
 tggtagaatt caccagtaca accatctggg tctgctgtct agaagctgnt ttaagtttat 420
 atgggtatct caagggaact agnctatctt atctaattta tcaaatatgt gagttagagc 480
 ttatttatct attctcttac taatccngga tttaatccat gggattagcn gaatacccct 540
 ntttatccn aaatnggcaa t 561

<210> 5906

<211> 587

<212> DNA

<213> Homo sapiens

<400> 5906

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tcggcccaga aggagacatg gcttgcttgg ctggctctaa aggcttggat ccatctcctt   60
tgaaaagaaa actcgatttt tctttttttg ggcctgggtg gtctattagc acattttcga  120
cttatttttg gagatgctct catttcctgt tcatctttca gtggtgcttt tccaatgcta  180
aaatgaactt tatttgaacc ttcattccaca ctcttaaatt cactgctgtc atcgcagggtg  240
ctgtctgtta gactatttgt ttttaaagta cttgaggtgc agacttcgac cacctcactg  300
tggagggttt cctgtaccac atggggagag ggagctctat tttcagatcc aggggaatct  360
gtagaatcct ttggtactga ttttggtttt ggtgacgttg accgtcctct caaaggttct  420
gtgaggggca ttttcttctt gcggagggtg tctggatcaa gtgtgtaaga gtctgattta  480
gaacgttccc gangaggatc aagctttgnc ttaacaggag cagtactttt ttgangnaaa  540
attttatcat gtggtgaaga agaacctgga naactacncc cnatggc                    587
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<210> 5907

<211> 565

<212> DNA

<213> Homo sapiens

<400> 5907

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gtttttgttt tttctggtct aaatagaaaa agggaaaggg aaagtaaatt cttagggccca   60
gacctcgaaa tgccccagt gtccaattgg cagctatagc atttgtgagg aggttccttt  120
gccctcagac gagtagtttc aacatttcag tgaaaacaaa ggttgcagaa agctgaaaac  180
ccagatcttg aaggttgctg tcatatatgt gtttgtgttt cttatattat ttccttttga  240
cttcagtttt gcatcccaaa tatgtatggg gtggcatttt aacagtcaat gagtcaaaca  300
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gtcaaaggag gacaggaggg gagccagctg gtaggagggg gcagcaaccg tgtgtggacc 360
aagcgccatt ttgntttat agacgtgtct tgaagggatg gtcccagaat atacaaaata 420
tacaatctgn cctaataacc accccgcttg cttgcatang ccatttgatg gcctnaaggc 480
agctttggag ttgaaggcag tgnactact tggaatgccg gtagattgag acccttctgg 540
atgtgtnaat gtggcatgac cagta 565

<210> 5908

<211> 551

<212> DNA

<213> Homo sapiens

<400> 5908

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tcccagggttc aagcgattct catgcaacat ccacctccca ggctcgagcg attgtcatgt 120
ctcagcctcc caagtagctg gaattacaag tgcccaccac cagcctggc taatTTTTTg 180
tattttcagt agacacaggg ttctgctatg ttggccaggc tggcttgaa ctctggcct 240
caagtgatcc gccacctcg gtctcccaa gtgctgggat tacaggcatg agccactgtg 300
cctggccgaa cctctgcitt taacccaat ggatttaagt agcatttaca agaggtagtc 360
tcaaactgac acgttttact ccaggataac ctcccaagt cccttgaggt tcccctacac 420
tggtgagtaa acaagctgta ccatggngcc ataaagaaat ggctttctac ccaangggac 480
ttaaattnga gagaaaaagn tncaaggctn accaaggatg tggaatattt ggacttntta 540
aataccgntg g 551

<210> 5909

<211> 567

<212> DNA

<213> Homo sapiens

<400> 5909

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 cactgcaacc tctgcctcac gggttcaagc aattctcctg cctcagcctc ctgagtagct 120
 gagattacag gcacccacca ccacaccagg ctaatttttg tatttttagta gagacggagt 180
 ttcaccttgt tggtcaggct ggtctcgaac tcctgacctc aaatgatcca cctgccttgg 240
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 cagccaaaaa attaaaacac accaacaagg gaatacagtt atttaataata tgggaaaaag 360
 gggaagttat atgacagcaa tattctataa aggaataaaa acggaagaaa aggaaacatc 420
 tgaattgggt catttaagca gtctacactg nactaccatt tacaaggaaa acgcccagggt 480
 gacaaacata ttccaagctg gggaagtcag actcttgttg aaagggccca gagtctatca 540
 gtcctggnga ataagcaaaa aactaan 567

<210> 5910

<211> 568

<212> DNA

<213> Homo sapiens

<400> 5910

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 aagtctaatt gtagtactct ctctctgaac ctgttccatg gctttgaagt ttctagcctg 120
 agtaactgat cagtatccat ctgtttttat ggcatggcta ctgtaccagg agagatacaa 180
 gtgagaagtt tgtgggctgt gtggaagtga agatgaccag gccctcaaa aagaagggaa 240
 gtggagatgc tccactgga aactatgaaa aaggagaaca gaggctgtac tggggcacca 300
 ggaagggaga atggaggctg agggcagtg cagacaagaa agctcctgca actccagctt 360
 agtcgttgca tgtgagatac actgttatgg cgtaggtgga aatcaattca ttacgcaac 420
 aaaagcaata gacataccag taatccttgc ccaaataaat tccttttcgt agtcaggaat 480
 cataccatct ggatctacgc taggtcacta cctttaaaaa taattattaa tcncttaatt 540
 tagatntaat ctgaacaaa agtcggcn 568

<210> 5911

<211> 380

<212> DNA

<213> Homo sapiens

<400> 5911

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aatttgctgc taaatgaaaa gcaggtttgg ctttattcat gttaccgtaa aaactaaata   60
ataaagtatt cacaccaagc gtgaattttt ttttgccagc aaaagttaaa acatcaaaga  120
aacctctttc aaatactaac aaatttactt acaaacacct atatttatta tttcataaat  180
aggcncaaca ggttccataa aaaaagatta aatacagaca cagtatgaag aaacaataag  240
acagagccat atgtaaaagt tgtaatttag ctgtttccaa tctgtttctg catctaataa  300
aataccaggt aagcatttgg cagttttata cataaaagga cttaaaggac atttactaac  360
cnttncnaa aangngntnc                                     380
    
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<210> 5912

<211> 570

<212> DNA

<213> Homo sapiens

<400> 5912

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agcatgcaat tttttattgn tttctaaatc tatttgtaca cttaatatgc tagtattaat   60
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aagaaaacat tgtctctgaa ataattccta attatacaat ttgcaaata agcactataa  180
atgttaaaat gttaagactt cagtgtataa tgtcaataac atcctgcctt tttaaaattg  240
ctttaggtaa ttcgtaggtt gtaaaaacta atgagaagta aaaaaaaaaa attatgaagg  300
tattacaaca ctccatttaa aatgaaaatc tatgttacga ctttatgctc ttcaaatacc  360
acaccagact gaagcatcaa ccagtatata aagtgttctg ntccttaaaa aatcgctttg  420
gttatggggg agtgatagcc ttgcttatta attttcaaaa atcctgccta ggtatccttt  480
agccngaata atcttccaat tacatgggcn tcaaaattac cttttaatca gcaattcatt  540
gggnggctaa atggaaataa ttgcccgan                                     570
    
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<210> 5913

<211> 564

<212> DNA

<213> Homo sapiens

<400> 5913

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ctaaaatggt ctggtctctc tgctgtaaga gacgcttaag tgacatcact tcttctttca   60
attgacttat aaggacaaaa ttgtctgttc cccactatc tgctgactga tttatagagc  120
tgacagaaat ggatgcaact ggcaaattac cttactaatg gcacacatta catacaccta  180
tctccattag atggcttaga ttccaatttg ggctttttct ttggagtffc attctgaatt  240
gttgagagg atttatggct ctgtttccac agtccctgct cttcttctgg acttagattg  300
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tttggatgat gctggctctt ctgagtaaga gatgaagaag atgaatttga atgtgaagat  420
cccaggtctt tccttgggtc ttgcttctg taaactcttt tgnaccataa agtncagagc  480
ccgcataata ccttncatna ccttcttctt ccttcctcct tccaacaaaa cncatggttg  540
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<210> 5914

<211> 572

<212> DNA

<213> Homo sapiens

<400> 5914

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caagcgtatg acaccaagcc cagctaattt ttaaattttt ttagagatg gggctctcagt  180
atgttgtcca ggctggtctt gaacttctgg cccaagtga tctcctgcc tcggcctccc  240
aaagggtgtg gattacaggc atgagccact gcactcgacc tgaaccaggt gttacatggt  300

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gtcctggggc tgacaaagga agtgggtggca gggactagca agaacgcat gaaaaagggc 480
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<210> 5915

<211> 582

<212> DNA

<213> Homo sapiens

<400> 5915

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<210> 5916

<211> 569

<212> DNA

<213> Homo sapiens

<400> 5916

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 cctgggtcgg cccaaagaca atctgcgtca cacactgtaa accaaanggt ccttggggcc 480
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 tggttctgaa anatggttgg cacangcn 569

<210> 5917

<211> 569

<212> DNA

<213> Homo sapiens

<400> 5917

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 tacagtcaag tgccaccaca cctagccaat ttttgtatit ttagtaggga cgggggtttca 180
 ccatgttggc caggctggtc tcaaactcct gacctcaggt gatcctcctg cccagcctc 240
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 ccaaaaagcaa acaaacccca aagctggcaa gaagacaaga aataaccnag atcagaagtg 480
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<210> 5918

<211> 561

<212> DNA

<213> Homo sapiens

<400> 5918

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 gcttgataat tgtgtgtttc tgagagggtt tctttggaag cctgccacag agagtggctg 180
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 ggcaggcagc cctgagccta agtgctactc agaggcaggc cccggagcat ggctggggga 420
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 caanaaggcc cagggaaggg a 561

<210> 5919

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5919

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 ctctgactt tgtgatccac ccgcctcggc ctctaaagt ggtgggatta caaggagag 180
 ccaccgcgc cggctctttt attttgtttt ttaaagtgtt agtagagatg cagtctcgct 240
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 aaggaaaagg ataactgcag gaacatcatc aggaactcag acgcctggca aaggtaaacc 420

acactgggtt cttatgacag aaacccttcn tgattccttn accacccccca aatcttcct 480
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 nctttgancc nggattt 557

<210> 5920

<211> 562

<212> DNA

<213> Homo sapiens

<400> 5920

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 accttctagg acctgttcac ttgcaatgc taattcttga agctgcttan atgctgctgt 180
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 cttggtactt tncaaattta ctttctgtcg aaanttcaag gncctctatc aaaggctttc 480
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<210> 5921

<211> 581

<212> DNA

<213> Homo sapiens

<400> 5921

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caaattagtt atctccttta aacaggaaaa acgaccatta gtctactggt tctcaaccct 180
 gtctgcacat gagaggaatg gagggaaaca ggacagggtg ttaaaaaaat agttatatcc 240
 aagaccacc tcagaactat taaatgagaa tctctcaaga gtgaggccca ggcaaagatt 300
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 gaaaacaggg gggaagcang gccccgatca gtttcatttt ctttatectc ttcagttggc 480
 catagtaaga gcntaancca catcaaata tggagcttt tgcaaaccg cttncceaaa 540
 tggaaatata acttcctttc cntttagaaa gctnttttaa a 581

<210> 5922

<211> 538

<212> DNA

<213> Homo sapiens

<400> 5922

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 gggatatctt tctgtcagct tctgtaacaa gcgggcctgg taagcagggg gatcctntcc 180
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 ccgggccccca actggaggct ctgnattaaa catgacgtta tggcctgtaa caacttttga 480
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<210> 5923

<211> 548

<212> DNA

<213> Homo sapiens

<400> 5923

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 gggattacag gtgcctgcca ccatgcctgg ctaatttttg tatttttagt agagacgggg 180
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 gcctcccaaa gtgttgggat tgcaggcgtg agccactgtg cccagcccag actcagcttc 300
 tttgcaaact ctaggagggc tcgcctcttt aagcccagct cagctgtggg ctagaatgat 360
 cgtttctaata gntcattgca cttatggggt cagaagtaag gaacgggtgga tgggtgtcaa 420
 gggcatgccc tgctcantgg acccggggag aanactcaag ancctgaang gagatcggac 480
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<210> 5924

<211> 555

<212> DNA

<213> Homo sapiens

<400> 5924

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 tgttgtgaaa catgacagat tgcccaagng ttatttttcc tctattggaa aattctaaga 180
 cgtttcctca tgtgtagttt ttcagtcaca aaaatggcag taggaatatt taaatattaa 240
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 gacttatgat tcccagatat gcagggttat cattgngact gctttggatc aagacaagtt 360
 tgtaaaaagc agcgacatag ttcgacataa tagtcaggag ctagattact tccctgtaat 420
 tgctatgcac acacagtaca aggctagcga gattatagac aatcatgtca ttcgaatcta 480
 ctatctttgg ataacttgaa tcattttcaa ggttaaaatg cgcttttggc agtaaagcgc 540
 ctttataang gcatg 555

<210> 5925

<211> 567

<212> DNA

<213> Homo sapiens

<400> 5925

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gggactacag gcgcccccca ccacaccCGG ctaatttttt gcacttttag cagagacggg 180
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ggagaagagt aaaattttan tcttcag 567
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<210> 5926

<211> 551

<212> DNA

<213> Homo sapiens

<400> 5926

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gcatcacaaa ctttggcgga tacagtanat atgtatttct ttgatgctga aaggtcagtc 180
cctaagacaa aatcaaattgt ctcaaagaat taaaagcaaa atgcatgtgt cttcctggca 240
aaggtttcca ttgcaatgt aatctgcatt tctacaaata ctcaatgtcc aaggccacta 300
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gagggtgaaa aaccagggca gcgtnttcca gcaggagtca gggcaaacc agagccaaaa 360
ctccatcctc agcccaacct tggaggccca acaactgggg ctnaaaaagn gggcccaggc 420
aacgccaggc ccttactggc cgccaccctn tgtgggctgg gtgcttgggg ncnagggatg 480
gcctgccttt tctgagcccc gggaaagggtt gttgccgggc tgntnacctt ttttgacca 540
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<210> 5927

<211> 558

<212> DNA

<213> Homo sapiens

<400> 5927

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agcaataaaa agaatgaat cactgacaca tgcaacaaca tgaataaatc tcaaaaacat 180
tatgctaagt gaaagaagca ttacattttg tataatttca ctcatatgaa gtttagaaca 240
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tttggaagg gtttgggtta cacagggtga tatgtctgca agaactcagt aaatttatct 420
taagatttga cattttattg caggtaaate ttaaatcnaa aaatttaaaa actaaataaa 480
tnctaancct tagttaataa tctgcagttg aagtactnng gggaagtttt tcacaactgc 540
aatttttttt gaatccan 558

<210> 5928

<211> 563

<212> DNA

<213> Homo sapiens

<400> 5928

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 tgttgaatgg ctgttctcct accccagagg gtgccgatg atgttgacag cacggctgct 180
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 tgcttcaggc ccanaaccct gggccctgct cgctgaggaa actggtggnt ggaancccca 480
 aggttaacca gcttaagctt gaaggagtac ttggtgggca anaagggtan ccagtccaaa 540
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<210> 5929

<211> 563

<212> DNA

<213> Homo sapiens

<400> 5929

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 ctgctgatac aaactaggct ggcctacgag gtgaccgaac gcaccagca gctgatttac 180
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 aggtagaaga gagagggaag gtggacagaa aaggaagccc ggtaaggaca cgacactggt 480
 ttccacacgc gaatcacgca ctttantatt ggggatagct caatgactgg tangaacctg 540
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<210> 5930

<211> 561

<212> DNA

<213> Homo sapiens

<400> 5930

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 gttacgacat taattgcaaa tagcaagtat ggtgctaaag tctacaccaa tggaattaga 180
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 cnggatctaa ttattcacia tcatgccagc atcagaaaaat ctggaagttt gatgtcnaag 540
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<210> 5931

<211> 558

<212> DNA

<213> Homo sapiens

<400> 5931

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<210> 5932

<211> 553

<212> DNA

<213> Homo sapiens

<400> 5932

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 ggaaatggat ccg 553

<210> 5933

<211> 559

<212> DNA

<213> Homo sapiens

<400> 5933

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 atttgggctt ctttgaaaag gttcggccaa gttnaacagn ttcctccggt ggactttcca 540
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<210> 5934

<211> 560

<212> DNA

<213> Homo sapiens

<400> 5934

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<210> 5935

<211> 562

<212> DNA

<213> Homo sapiens

<400> 5935

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aagtgttgaa agtgaggctt ggctccttcc gactgcttat agtaaaataa cagaagagag  360
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attcttagac tatccatatt gcaaaacaag atacagtaaa gatgtgacca agcaaccatt  480
tgctaataaa atttgatgg atcaagcatt ttaacagaaa ncnggtatga tcctttagac  540
aatgggaaga atgaccccca ag                                         562

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<210> 5936

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5936

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aaatataaaa aataaaactt ttagcttgct tattaaacta ggaagaattt tcctgaaaca  180
cagcagttaa attggtctac aatgcattaa taaatggaga acacggatct cgcctatgaa  240
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cttaaagtct tttcagtaac atgaaccatg atctcttgac aagtccttgc ttaagggcaa  480
gtaacttttg aagctggact tctcaatctg nanagagaan ccagctgnat tcacagnatt  540

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557

<210> 5937

<211> 550

<212> DNA

<213> Homo sapiens

<400> 5937

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aaaatgttat caaaccaaaa tatctcagaa ggacaagaaa gggactatgg acactatgtc 240
cacaggcaac acactatggg ccattctctg aggatgacag acactcaaaa ggtcaaatat 300
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attgaaatct aatttagtat ttagaacctg acattccccc agatgaaaat ttatatattgg 480
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<210> 5938

<211> 558

<212> DNA

<213> Homo sapiens

<400> 5938

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cattctgtcc taaaagcatg tacaaaaagc tctcctgcaa ctattgatca tcacctcggt 180
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atttcttaag agttttcgat ttttcttcat ttgaacctaa ngaattcggg tctgaatact 480
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<210> 5939

<211> 545

<212> DNA

<213> Homo sapiens

<400> 5939

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cgaattgggc gtgaggggtg cgcccaccac atcaatgatg gtgtccttgg ggtcaggacc 180
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aacac 545

<210> 5940

<211> 576

<212> DNA

<213> Homo sapiens

<400> 5940

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 tgtgaaaatg tcagtcacatc ttgggaaggc ctcaaataga caaggagagag tcttgagctt 180
 ggtatccttt catcttgga gaattcatag ctgggaattg gctaaagctt tgcagtgggt 240
 tgaatgatgg tttccaatga gatctgtcca tgccttagtc ttcagaactt gtgaatatga 300
 ccttatttgg aaaaatggat tttacaggtg taattaagtt aggaatcttg agatgatatac 360
 atcctggatt acccaggtgg gctctaaatc acatgaaaaa tgttctcata aaaatttcag 420
 agagagtga gacctgcagac accttcattt caggcttcta gcctncagaa ctatgagata 480
 ataaattctg gtggnntaag tcccaagatt tgggcaatgc atacagcact ctagggacta 540
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<210> 5941

<211> 396

<212> DNA

<213> Homo sapiens

<400> 5941

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 ctgagcccag tcaagccaac ccgcagcttc actcacgact tcaagatttg atgctaattc 180
 ttttgatttt ctacagttat taaataagt tctgagtga ctgtctttgt tcctttgtgt 240
 tttgagggtt ggctgggttag gagggtgggt gggttgtctg tggcagtga tttttgccag 300
 gagaggaaca ttaaatacca aaggtaggtg gcagtatttc agtctctgcc cnagccgaca 360
 ggcagagaga ccttnacaan taatangacc nannaa 396

<210> 5942

<211> 554

<212> DNA

<213> Homo sapiens

<400> 5942

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 tctagataaa tatctatcaa aattaacttt aagagaaata ctctctttcc ttaaaagccc 180
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 Tgtgatatat gtttctaaac ttaagtatta cagaaaacat cactatccat ttgtaaaaaa 420
 ctcatctgg aaaatacctt tcccttgggt tggTataaaa naccttccat anagcttttn 480
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 ncccnaactt aaac 554

<210> 5943

<211> 567

<212> DNA

<213> Homo sapiens

<400> 5943

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 agggctggag gtagaaggcg cgcccttgga gaagggtgtc agcacagaga ctgctgcctt 180
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 ctctttgaag tgccttttct ggatgctcat tgggcccatg aggactctat tcactttttg 420
 ccggttttgg cctacagttt gaatctttgc caggctggtt cctgnggtgg caagtttaaa 480
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taangcctgg tacatactct nggattg

567

<210> 5944

<211> 568

<212> DNA

<213> Homo sapiens

<400> 5944

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 ttttgaccaa agagctgaaa attttgtgtt ccagttcatc ttactcatgt tattctgatg 180
 cgaaacactc taaatgcaaa ttgttttgaa agtaaataagg ccaagtggcc taccctgccc 240
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 tttggcttac acggagacca tcagctacaa cgcatggcag tcagcttcag agtcctcgct 360
 ccagtgtgca tctcgtttct cagccacaag tttgatgaat tgagagtgcac tggcataaag 420
 cttcagttta tcattgatgt ccaccattt cacttttcca gcatcatctt cagcttctag 480
 cattaagaat atccattatc tnaccgggtc gcatgggagg tcacaagttc tggctcatac 540
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<210> 5945

<211> 554

<212> DNA

<213> Homo sapiens

<400> 5945

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 tcctgaacag ttgaccgcat atacaagaca ttccgtcatc ctctagtgt ccaagtggca 180
 gaggctgatg tttttccctg gttcctattc ttccagtggg gaagtaatgt gctcaactgt 240

tcctatactt cttcagacca aattatgtat attcctacgt aagtgcaaag catggatgaa 300
 aagaatcata cagggtagaa atccagcaca taagattttc taggttctga cccttatatt 360
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 tcaaaggcca aagtgccttc ctacatgaac tattctctgn ggaagaaact gaggcacag 480
 ttgggtnaga ccttacctaa aggatntaat aaattacact gggnaaanta gcactgggga 540
 agaaggaatc ctgn 554

<210> 5946

<211> 568

<212> DNA

<213> Homo sapiens

<400> 5946

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 ggtgcctggc cccacagtgc ggggtgatat gccagggcca gggccaggac ttggcagccc 180
 ctgggaagag gaggccttgg ggccagagct cttgccaggc ctagatcgct aagaagggtgc 240
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 agggcagcca gcaagctggg gtgctgggag gaaccccagc aggcgggggc ggcctttggt 360
 ctctacgagg ctaggaactg gttctggtta gaggaacccc gtgggggcaa anccggaaaa 420
 cttggtccct tgttagagga aacgcttga ncaggatggg ggttggggac ttggggtctg 480
 gtctcaataa gggctggaaa tggcttccgt ttnaaacaaa acttttgatt ttggggaagt 540
 gttcccaatt tctnggtnc tccggana 568

<210> 5947

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5947

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tgccatcctg gaatttcaag gtctgactgg ctctgactg ccctcagcta ggatccaggg 180
ccccctttcc ctccccaaact ccccaaggca cctgcctcc cacctgcca caggggtggg 240
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tcccctggcc accanaggct ttctcctgcc tgacatccat gaacggnaga acaggccagg 420
gcangnggtt tccccaaang cagctgcttc antcaggtgg acacacttgt taanggctgg 480
aaactcaagg gttttgaagg ggngggaact aaaatcccat ccaattntta ttcttgcca 540
aaggcaaac agaaaaa 557

<210> 5948

<211> 554

<212> DNA

<213> Homo sapiens

<400> 5948

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atgagcatta ggttaatggg tacaaatgta cagttagata aaaagaataa gacctgggtct 180
tcaatacatc atggtggcta tagttaacat taaccattgt acatttcaaa atgctagaag 240
agaataattc caacacgttt ttgtttgtct tacttttttc tgaattctaa tagactgata 300
catcagtcce tgctgtagcg aaaataatga ctctctcaaa atgcacttca agaatgtgac 360
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ccgccacaat tccttctcct nccangtgga ttcanagtcc tggaggacag aatccttggg 480
aacttgagtg aactcctttn accagnccag ccttgactca aattcagctc atatagctca 540
caagctccct ggcc 554

<210> 5949

<211> 551

<212> DNA

<213> Homo sapiens

<400> 5949

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acaggtgccc gccaccactc ctggctaatt ttttgtatit ttagtagaga cgggggtttca  180
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aaagtgtctg gattacaggc gtgagccaca gcgcccggcc taaaatattt tcaaagtaat  300
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ggcccagtcg gggagtcggc anggctgngc tcccttangg agaatccgtt ccttgntccg  480
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<210> 5950

<211> 560

<212> DNA

<213> Homo sapiens

<400> 5950

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tacaggggcc cgccaccacg ccagctaatt ttttgtatit tttttttct ttttagtaga  180
gacgggggtt caccatgtta gccaggatgg tctcgatctt ctgacctgt gatccgtccg  240
cctcagcctt ccaaagttct gggattacag acgtgagcca ccgcgccgg ccaaagatc  300
cataaacttt gagtcaccag atagagctaa catttaccac agaggcatgt aaagaaaacg  360
    
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attctagcag agtaactata atacaaaaga acaatattcc aattatgttc ctatgttcta 420
 tccaggaagg ttttaagagga gcctttttaa ctggaactat attctaagaa ggtgggaaaa 480
 aagttttctt ttggttttct tattaaccgt accttgaaag ccccaaataa angttccttg 540
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<210> 5951

<211> 556

<212> DNA

<213> Homo sapiens

<400> 5951

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 cccaaattca tgcacacaat cattccaaac caatgttagg ttatcccaaa aaaagggaaa 240
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 aatgtcttat acaaatttca gaacatttaa gtgcttgcca aaaagagttt attattcctc 360
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 aaaaatcctt gatattt 556

<210> 5952

<211> 551

<212> DNA

<213> Homo sapiens

<400> 5952

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<210> 5953

<211> 551

<212> DNA

<213> Homo sapiens

<400> 5953

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<210> 5954

<211> 566

<212> DNA

<213> Homo sapiens

<400> 5954

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gggatttact tgtagtggca agacagactt tttatcaata cagaataaat attaacagca   180
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acgcaaccac tgcagaaaaa ctccactggt aaatagaaca cagtttaata agtagattgg   480
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<210> 5955

<211> 564

<212> DNA

<213> Homo sapiens

<400> 5955

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cgtaaagag aatgttgtag tgtgaataaa aactagaact cagtggctta tgaagtatgt   420
attattttgg caagtgattt ttctcttctt aagaataaga tgaacatgtc caaatgttcc   480

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<210> 5956

<211> 565

<212> DNA

<213> Homo sapiens

<400> 5956

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<210> 5957

<211> 562

<212> DNA

<213> Homo sapiens

<400> 5957

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 ctttttcctt ttggcatgnt taattagaga acattttcta taaggcntta ttaagaataa 540
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<210> 5958

<211> 567

<212> DNA

<213> Homo sapiens

<400> 5958

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 aaaaaagaga tcatttgccc catcaattgg cagcaaacgc tgtgggaaga aaaaaaagga 180
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<211> 546

<212> DNA

<213> Homo sapiens

<400> 5959

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 tacaggcaca cactaccatg ctcgaccaat tttttgngtg tttttggtag anacagggtt 180
 tcacatggtt ggccaggctg gttttgaact cctgacctca ggngatccgt ccacctcagc 240
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 tactgaaaat aaacaatcca aatgtttttg ggataaagat cttggacagn ctatgaactc 480
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<210> 5960

<211> 553

<212> DNA

<213> Homo sapiens

<400> 5960

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 gtctgtgct ctttctcgta acacctttgc atactcttca gttcttcctt tagattttca 180
 attgtgcat taagagattt ttctcagagc tcaacctgtt ccaatggaac atgttgTTTT 240
 tgcaaaagat tttgcaactgc aagtatctca gaagtctgtt tggcattttc ttctactagc 300
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<210> 5961

<211> 556

<212> DNA

<213> Homo sapiens

<400> 5961

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ctcagaactt gggacatgat ttttcttctc tctcacttct tataagcaga tgcccccttt  180
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cagtttgtct ggggtccatat gattgtagga gttgggtgtg ttagaattgg tgaacttgac  300
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ctcttctctc aataagacag tcaggactaa ggctacatct ttgaaggctg cgttttcatg  420
gtcacaatat ttgtagaaga tcaaagtnaa cctgcgggaa atgctcaaaa cggngaccac  480
actgcattct gggccattct taaaccatt ggtcantctt gggctacccc tagtttggca   540
ggntcactgg cttgng                                           556
    
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<210> 5962

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5962

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tgtgcgccat cacacctggc aaatttctgt atttttagca gagacggggt ttcaccatgt  180
tggccaggct ggtctcaaac tcctgacctc aggtgacctg ctgcctcag cctcctaaag  240
tgctgggatc acaagcgtaa gccactgcgc ccggcctagg aggcttctaa taaagattct  300
    
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atcactccta agaaggccta gagacatgat caggcctaga cctgctgatg attaccttgg 360
 tatggtgtga taatgaagtc cacactgagg atgacagagc tgagatgaag aaaatctgga 420
 tctttgcttg gctcagttga gtctctcgag tctgctctac catggggctt ctttaagtaaa 480
 atatatcctt ttttggtaga aacagtgtct tgctntgggc caagntgaat gcntggngca 540
 aacnttngnt aattgga 557

<210> 5963

<211> 576

<212> DNA

<213> Homo sapiens

<400> 5963

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 tacaggggac tacaggtgtg tgccaccatg cccagctaata ttttttggt ttttttagtgg 180
 agacgaggtt tcaccgtgtt ggccaggatg gtctcgatct cctgacctcg tgatccgcct 240
 gcctcagcct cccaaagtgt tgggattaca ggcatgagct gccgcacccg gccaaattct 300
 ttttaattcct tagacacagg ttagaggggg aacaatgctt aaaattccat ggaactaaga 360
 tttttttttt atttttatnt ttttgagaca gagtcttgct ttgttgccca ggctggagtg 420
 cagtggcaca atctcagctc actgcaacct ctgcctcctg ggttcaaagc aattctcctg 480
 cctcagctnc caagtagctg ggactacagg caccacccac acacttaagt aatttttaac 540
 nttagtanaa acgggggttca catgttggnc nccctg 576

<210> 5964

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5964

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 tacaggcgtg cgtcaccacg cgtggctaaa tttgtatfff tagtagacac agggtttcac 180
 catgttggtc aggctgggtc caaactcctg acctcaagt atccaccctc ctigacctat 240
 ctcaagtctg ggattacagg cgtgagccac acctggctgc cttttaactg ttctgataag 300
 caaactctac agttaaaacc aatfffftgg tgcactaaaa ataccaactt cctcatcaaa 360
 atctacaaag taccatgtga aatgaaatgg catgaagaca acagtaagaa aactgtagct 420
 ataactcaga aaaagaatag ctgngatgca tacatagttg gaaaatgcat aagacaaatc 480
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 gccanactgg antgcaa 557

<210> 5965

<211> 576

<212> DNA

<213> Homo sapiens

<400> 5965

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 ctaggaactt catataaaat ttaattccag ttccaactag ttgtggagca ttgatccaa 180
 aataaaatga aagtcctctc tgaagttgta gaggagactc aagaatcaga acaacctgaa 240
 gttctttaag ctgtcagttg aaggactagg taaaaaacia atatcattta gtgtgatcat 300
 taatgcacat gagtcattat tccatgtggt tgctgtcgac tggtcagggg cacttcaagc 360
 cctaactctgt actttgtcct gtctctctac accctgttct actttttcag cttgttgcct 420
 gtaatatgtg aatggaaata aaataatcaa gcttggttaga attgngttca taacgacaca 480
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<210> 5966

<211> 574

<212> DNA

<213> Homo sapiens

<400> 5966

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actttatgcc tccctgacat cttgtgcata tgagtttggt ttctgaatgg attattggag  180
catttttaag gttgggtgtc tcaatctttt aagagtgcag agcatgagga gtggctggca  240
tccacacctg aagcaacact ttctgtgatc ccacagcttt ggatgccaaa gcagctgctc  300
agcgtgacac gaagaatcag tccagaaagc tgccacagac cctctccatg agatttttaa  360
aaaaccactt ttgttttctg agtaataaaa gaaaccccag taatattagg gacatggatg  420
ttagtacagt aattaccaca cattgaaaat attgttcagc aggaaaagta aaactttcaa  480
aaaatttctt aaagatccta ttttaataat aattttgatt aanggaccct tatgcaaact  540
tggaccaant actgaaactc cactggtggg gaaa                                574

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<210> 5967

<211> 573

<212> DNA

<213> Homo sapiens

<400> 5967

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caggcatgca ccatgatacc tggctaactt ttataaaatt tttttgtaga gatgggggtct  180
tgctatattg cccagactgg tcctgaattc ctgggctcaa gcaatcctcc caccttagcc  240
tcccagaatg ctgaaattac aggtgtgatc cactgtgccc tgcctcactg aaacttttaa  300
atcataaaat tatctgcatt ctgtatgtc cttgagcaca tagatacact ttttcatcaa  360
tggggacaca ttcctactat aaggctgaga aaagagaagg gagttcaata cttactgaat  420

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aaatgtaggc ataaacctca ctacctgttt caaaggcctc attatttcct tctctaagac 480
 aaatccngag cactttgcag ncattataga cttctnttaa acaacctgga gcctaaanat 540
 aggggtaagg ggtggacttt gattgaaaaa aac 573

<210> 5968

<211> 574

<212> DNA

<213> Homo sapiens

<400> 5968

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 ctigattagg agcattttta tcacgaagcc aacacatggt actgcgtatc tgtttaaaat 120
 ctggtagttg cttaatggga ccaacagcag caatagctgg actcctatta taagtgtatt 180
 tggtagatc ttctcgaatt gtctcagcat tcacagcatt aattcttgct tcaagctcag 240
 ggatgggaat ctttctatta tagcataaca ttgcctacc aatatcttca caaattggag 300
 ttgaaccatc aagctgcaac aacatgtttg ttttcagaag atttctggct cgtgcaacct 360
 cactttctgt gacacttgta cagagtcgca tccattcttt ttgaacaaca tgtagcatgt 420
 ctgcaacagt ggatgattca caaaccatat acagtcceca taatcctgna tctgngtagg 480
 aagtgttgaa agactgaaaa gctntggcaa agatggcatg acaagtganc tgggccactt 540
 gctanaaaat cattcttccc caaaagagcg atcc 574

<210> 5969

<211> 419

<212> DNA

<213> Homo sapiens

<400> 5969

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aaagctcatt ttcattcaca ttgataatag gncanacaca tttttgaaga aaaaaatgga 180
cagagcgtaa aggataacag agtacacatt ttcattttct atgatgaaaa ggaattttta 240
aaattggctg ttgnacataa aaactttttt ttttaaccaa acaacctaga attaaatgga 300
gtaaaatgtg agaagcccc cttttttcct ctttcagcag acaaaaccgc tgncaatagc 360
ttgatatgng nnatcacaga ctcttttcta ggggtgcacac acgcatatat gctncnnat 419

<210> 5970

<211> 457

<212> DNA

<213> Homo sapiens

<400> 5970

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tcctgcttca gcctacctaa cagttgggat ttcaagcatg tggcactgca ctcagcccca 120
ggaggctttc tgaaggaagt gatgacaaag gtagattttg agaataaaga aacaaggtag 180
cgggctggac acggtggctc acgcctgnaa tctcagcact ctgggaggcc gaggcgggtg 240
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agacnggaga attgnttgaa cccgggaggc agaggttgca gtgagctgag attggcacca 420
ctgnactgca nnctgggcan caagcgagac tgtctna 457

<210> 5971

<211> 424

<212> DNA

<213> Homo sapiens

<400> 5971

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cattctattg tataaaaccc gagttcttaa aaacatgttt tctttggcac tttcattccc 120

tccctccctt ttccccagca tattgcaaaa agctctccag tgctaaggca ttggcagggt 180
gtgtaaagcag cagccagcat atgtggaaga ataatacaaa gctttttttt ttcttctaata 240
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ccctnccctg tgtcctctgt caccttggtg atgaggccac cagtgatgtg aagactggna 360
gggaacccta ggtcanacct tggtnccctg ttgntcttcc cnagaccan ggttccctng 420
gttt 424

<210> 5972

<211> 574

<212> DNA

<213> Homo sapiens

<400> 5972

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aaacacaagt ctgctgtgag tccttcagca tcatgagtgt gagtgatctg agtctggaat 120
accactgtct ctgtagcttc ggttactact gctttcactg tgattgtttt tgtacagatt 180
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ttgagaagag cgatccattc ctatgaacat accaaccacac taaagcaaga agggcaatgg 420
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tcttgctttg gctctcaatg anggtgggtg gaaggttgac anttcaaagg ggtgcaagtt 540
taagcttnaa tccaaccggg agttcattna atag 574

<210> 5973

<211> 570

<212> DNA

<213> Homo sapiens

<400> 5973

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 cctcccgctt cagcctccca aagtgctggg attttaggcg tgagccactg cgcctgcctt 120
 actcctactg tacttaaggc atcataacat ccagaccatc atgggccagg ctgctctgcc 180
 ttacacttcc atttcattct taacatgtga cacaagatga aacacaacat acttctgaac 240
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 aggttaaaat atgatataat caggagtccc ctgttaaaaa cccaaatata tctgaaaggc 420
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 gacctggatt ctaatcctga ctttggcaat ttctaactgn aaaactgcaa taaaatatta 540
 accttctgac atgaaggaat tagtaanaag 570

<210> 5974

<211> 576

<212> DNA

<213> Homo sapiens

<400> 5974

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 ggaataggag gctgttcacc accaccaaga ggtccagtgc attttgctgt ccttactgat 180
 aggccatatt tcaccttctt acaacagaaa tatcatcaga gactttatca aaaactaggc 240
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 aagccaggac tattgaaaac tatgccattt tgattctctg ctcathtagg aaacagacca 480
 angacggaat attttaaaag tcaataatta aangggcaat cacttatatt gcccctttta 540
 aatcccagaa ctggactttt caagtattaa cattag 576

<210> 5975

<211> 573

<212> DNA

<213> Homo sapiens

<400> 5975

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gtagggatgg ccactgcgcc tggctaactt ttgtattttc agtagggaag ggtgagtcag  180
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aaagttaagg gattacaggc ctgagccact gtgcctggcc taaaattttt catttttcat  300
gtaaattaaa gctaataagg gccagtttta ttctctaacc aagacctttt aagttaaatt  360
gatctttaac tacacacaca caccctgcc caagggtaca gttctacttt ctactagtag  420
taactctcct ttccactttt aattttgagg aaaattattt acacagctga cccttgaaca  480
cangnttgaa atgtgtnggg tccacttaca tataatggat ttttttcaat aaaaattttt  540
agagattcaa ccatttgga aaacctggcg ata                                     573

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<210> 5976

<211> 573

<212> DNA

<213> Homo sapiens

<400> 5976

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tacaggcacc caccaccacg cctggctgat tttttgtatt tttagtagag atggggtttc  180
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caaagtgtg ggattacagg cgcaagccac cgcgccggc ccattaatgg gcattttttt  300
taaggccact gtcctaaatc taaggaatat gaatttttat agatagtcac gatttttttc  360

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tgcacattca atgaacagta ttaggtacct actgggttgt atactgggca ggattcaaag 420
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 atcttaaggc caacctccaa taaggnggcc ana 573

<210> 5977

<211> 552

<212> DNA

<213> Homo sapiens

<400> 5977

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 caaataaaaac aaatatttct ttcatagnn gggcatccaa ctttagataa tctggaaaaa 180
 aatcactnta gcccctgaat accatgatgt gcatgatgtg caaaatgaaa gtatcaccca 240
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 aagtccattc ttcttctgat tctggtctcg gtcagcattt ttagaagtcc acttttgagg 480
 agcaaagcct ttaagtctag attaaccanc cggtatggaa ggctaattcn ttccacgatg 540
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<210> 5978

<211> 562

<212> DNA

<213> Homo sapiens

<400> 5978

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 ctttgctttt ataaagtcca cgataacaat acttaaatgc actttttttt tcctgngata 180
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<210> 5979

<211> 472

<212> DNA

<213> Homo sapiens

<400> 5979

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 catgttatca acaggcatgt ccccagggtg aggcctccca cccgggaccc aacttggtca 180
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 gggcctgtgg ggggtgtcctc gcagcccccc tananagggg gcgtgcggaa atggatcttc 300
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 atcaggtcca cagctntcag gtagccaagg cccaggaggc tgctgccatt caccttcagg 420
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<210> 5980

<211> 456

<212> DNA

<213> Homo sapiens

<400> 5980

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tcatccattg atctttgcct aaatcagtta ctttgtttagc agttgcaaaa tagcaacttt 180
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atgtcctcaa tgataactaag acattagaat taatgggtcat ccaggagaat ggcgtgaacc 360
cgggagatgg agcttgcagt gagcccgaga taagtgcctc tggacttcaa cctggggcgat 420
agagcgagac tncatcttca aaaaaaaaaa nnnnnn 456

<210> 5981

<211> 517

<212> DNA

<213> Homo sapiens

<400> 5981

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agtctggagt ggggaatggg gtagtttga accacatgac tgagtttgag ggggtgccct 180
caccacagct gaggtagggtg ggtcagagtc tggccagggtg agaggaggca cccagtgct 240
tggccctgac tctgccccct ggacaccttc ttcagtcagg accccaaaac aaggagacac 300
aggtaggagg agagggacaa ctggagtctg gagccctagg tgaggggtgg ttaaccctg 360
tgtgtgtgca tacatgcaca ctcacacaca cataccacac aaagacaagc ttgtgcacac 420
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<210> 5982

<211> 569

<212> DNA

<213> Homo sapiens

<400> 5982

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<210> 5983

<211> 566

<212> DNA

<213> Homo sapiens

<400> 5983

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gttngccttt gggtttctac aagttggaat atgatatatg taaggggtgg attttttttt 480

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<210> 5984

<211> 586

<212> DNA

<213> Homo sapiens

<400> 5984

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<210> 5985

<211> 480

<212> DNA

<213> Homo sapiens

<400> 5985

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tccaagagag atgcacttgc ctaagaccat cagctgtaga gctgggctaa tcccagtgc 180

tgactcttcc atgaattgtg tgtaattat ttatttattg agagagggtc ttgctctgtc 240
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 ctggctaatt tttnattcc ttttagagac caggttttgc catgttgccc aagctggcctt 420
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<210> 5986

<211> 471

<212> DNA

<213> Homo sapiens

<400> 5986

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 cagacaagtg ccaccacgcc tggctaattt ttgtactttt gtananacgg ggtctcacca 180
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<210> 5987

<211> 576

<212> DNA

<213> Homo sapiens

<400> 5987

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ttgtaagaat tcaagccaaa aaaagtccat ccatgggaaa aacggttctt ctatcatcca 180
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ggccaaccct tggacatggc tttgtgtgan aacaaa 576

<210> 5988

<211> 582

<212> DNA

<213> Homo sapiens

<400> 5988

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aagagacttc cagtcaacag aagaccaaga aggaagatcc ctcaacaaaa agtatctcca 180
cagaattgga tctcttacag tttcattcca ataatgattt gtacttccca actgacacag 240
atcatgaggt gaaagaaagg acaaaatata tagctgtaca tcaatctgaa acagaagaaa 300
gcagcaggta ggaaaaagga atgaagaaaa tagtttttgg gtgataaacc acataatcaa 360
caaataaata acaaaaggtc aactgactag tatttttaat aactaaatct accattaata 420
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<210> 5989

<211> 572

<212> DNA

<213> Homo sapiens

<400> 5989

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<210> 5990

<211> 547

<212> DNA

<213> Homo sapiens

<400> 5990

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547

<210> 5991

<211> 604

<212> DNA

<213> Homo sapiens

<400> 5991

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acttacatgg aaaggaaca caaaatccat ttttatatac ataaaaaaa aacacccaaa  180
gagacttgac ccccaaatg tcttgtttca cttgaaaata acatgaatga gacgaaagat  240
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aagtcaagtt agaagttatt gngtggctac cttatatcca gaccttaat agactgagtg  480
gaattgncac ttctcttnc tcaagtattc caaatggtag taaacttcaa ggagcttggg  540
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<210> 5992

<211> 592

<212> DNA

<213> Homo sapiens

<400> 5992

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tgtctggggt cctccgcttt gcttgttttt gggctgtctg tgcagccttt aaggctcttc  120
ttcgcttctt cagcttttga gtctcctgga aaaccgaat gcacagagcc ttcttgggtca  180
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cgaatcggcg gtgggctctt cggtaataca gaggggggaa ggtgtactca attcccagcc 240
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 tcctctggtc aatgctcatt agcagatagc cgtttgtggg ctttgnctt tcgatgtttc 360
 tccaagtgtt cttcataact gcggatcttg acagacaagg caataactga aaccacaaac 420
 cacagaggat gatagttggg cacagangaa ggaaggccca gcctggttta cgttttaaga 480
 actcaaggaa taacatcacc aatgctctgt caacttntta taaatnccaa tcactctgaa 540
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<210> 5993

<211> 594

<212> DNA

<213> Homo sapiens

<400> 5993

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 cttttctacc aactggatt aaataaactt gtcaaaatat ggttttgtca ttttctgaga 180
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<210> 5994

<211> 589

<212> DNA

<213> Homo sapiens

<400> 5994

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agaacactca ctgacagtgt ggccatgctc attctttaag ccttaattta ggtcccat 180
ctgggtgtgg gccttccttg aacttcctcc cccagatctt ccatgtcata tctgtaccac 240
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aatacctggg ataccggacc caatatctgc tgattgatct aacctaaatg aatacaaacc 420
atttcagaaa aagatatata atagaccaca tatccaggctc atgaaaatta agctttcang 480
tcacctactt agtgactatt gctcttgacc ctagactctt ggaaggccat tnaactggcc 540
ttttttcaca ccaaactggg aaaaggggac tggntnganc cggatttcc 589

<210> 5995

<211> 342

<212> DNA

<213> Homo sapiens

<400> 5995

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tgcaccacca cacctggctt atttttgtat ttttagtana aacagggtnt cactatgtta 180
gccaggctgg tcttaaactc ctgacctcaa atgatatgcc tgccttgac tcccaaagtg 240
ctgggattac nggcntnaac cactatgacc agcccggaca ttaactcaca atggcnggg 300
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<210> 5996

<211> 577

<212> DNA

<213> Homo sapiens

<400> 5996

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 cacgcaaagc ttctggtgcc atataagctg ttgttccac aattctgcta gtcattgactg 180
 tctgggcaaa cttctcanaa gcccgtgcaa ggccaaagnc agatatttta gcantaaaag 240
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 gtggagtacc atccaagcaa gagagtctgt ctagcantga accgttaggc atgtaaacat 420
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<210> 5997

<211> 599

<212> DNA

<213> Homo sapiens

<400> 5997

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<210> 5998

<211> 543

<212> DNA

<213> Homo sapiens

<400> 5998

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<210> 5999

<211> 279

<212> DNA

<213> Homo sapiens

<400> 5999

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 aatattcctt ctaactctcc cctctacctc aattcccttc agaggtaaca cagcaaaaaa 180
 aaaactgggg aaaagcaaac aactttccag acctctacta ttctaaaaca caaagagcat 240

tacagcttgc tatgcatitt tttttttggg ggnnnnnnn

279

<210> 6000

<211> 548

<212> DNA

<213> Homo sapiens

<400> 6000

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 ttacaggcat gcaccacat gccagattt ttctgcatta ttattattat tattatttgt 180
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<210> 6001

<211> 536

<212> DNA

<213> Homo sapiens

<400> 6001

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<210> 6002

<211> 552

<212> DNA

<213> Homo sapiens

<400> 6002

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 ncacctggta an 552

<210> 6003

<211> 554

<212> DNA

<213> Homo sapiens

<400> 6003

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acaaggacta ttgaaaaaaa tatggcaggg taagagatta tagcatttgg gagtgttgat 420
gggggtatgt tctgagtgtg acagagaatc acagagaggt ctaaataaac ctgggggangg 480
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<210> 6004

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6004

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TTTTgtttg tttgccacaa ccaagtaaac cctaattgtat ttgatTTTT cTTTTtaaaa 180
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tacactttca tgatgtgaag cctttaagac caaaatctct cttaaacatt cagcttgaat 420
aataaagaca tgttgcctag agatagaaaa ttcattatTT taaaaaatat aaccttaaaa 480
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<210> 6005

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6005

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tgtgcttgag aagattcaga ttgtttcaaa gtcattcact gaactaaaag tcattttccc 180
catttttaca gtcatgacat ttaccagagt cattcaactc caatttacet aagaaaacat 240
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gcaaaaatata acactggcac cagatttgta tcatcgtgct ttacaaagat atattgcaca 360
tgctagagca taaaatatgt agacaaaact accaaataaa agatatttgc attgaatttt 420
tagatcacat aagaaacgca tagaattaca ttttatacaa cactcagatt ggcctatctt 480
aaaatgcttt tncctataa tactggccta agggttaaag gttcgtaagg acgaagcctt 540
tntc 544
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<210> 6006

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6006

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ggatggatctg aaatgccagt atagtcacga gatcttcagg atgtgtattc cttcattacc 360
aggtagcaga gctgtagtgt ttattgggtc taactgtggc atcagaacac tccccatctg 420
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aagagtcaca gtccgattct tcaaactgca tggggttctc atagccacgt tccttcacac 480
acagcttgcc cagagacatc tgagtcttna caccgggcac cggacacttc ntggcaaaaa 540
nnccc 545

<210> 6007

<211> 537

<212> DNA

<213> Homo sapiens

<400> 6007

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acatacaatg gaatactgtt gagcaataaa aaggcataaa ctattgaaac atgcaaaaaa 180
tggtataatc tcaagataat tatgttgatg gaaagaatcc agaccaaaaa aagagtacat 240
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agtacacatg tncataaaaa cttataatat tggatacatt aagtgnntag ttactggat 480
gtaaattccc atcaacaaag gtnttaaaaa tggaaaatna aacaaatcag aagctgt 537

<210> 6008

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6008

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ggaatggagg caacaccaag gaaggccttg gaagaggtgt tggctgtctc agcagccacg 180

ccctccgctt ccttcgagcc agagcctctg tttcatttgg ctcttttgcc ctgcctcat 240
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 gaggatggaa ccatcaggaa tgggattagt gccctctaag gcactaagaa aaggctggtg 420
 ggctagactc agtgactcat gcctgtaagc ccaacacttt gggangcttn agtggaagga 480
 tcatttgang ctnggagttt gagaccnanc tggacacctt aaaaggaccc taatnttttc 540
 caaaaa 546

<210> 6009

<211> 500

<212> DNA

<213> Homo sapiens

<400> 6009

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 tttcacgtg ttaaccanga tggctctcaat ctctgaact tgtgatccac ctgcctcggc 240
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 gggatnacag gcatgtgccg gtctccctna aaactgggcc cacttgaggg aaactcattt 420
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<210> 6010

<211> 312

<212> DNA

<213> Homo sapiens

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g a g c t a a a a a	a a t a a c a a a a	a t c c a c c t c c	c a c c t c c c t g	t t c c c a c t t c	c t c c c a t t c c	120
c t c c a a a t a a	a a g g g a a a a a	a g g c a a a g g a	a a a a a a a a a a	a c a a a a a a a c	a a a a c a a c t g	180
a a a a c a a a a a	a c a c c c c t a a	a c c c c c c a a a	a c a a g g n a g n	g c a t t t c c c c	a g g g g g a a g g	240
g g a a t t t a c a	c t g g a g c c g n	t g g g a g c g g a	a c g g a n a t n t	t c c g g n t a c a	g a a a c c t g c a	300
a a g a a g a c n c t						312

<212> DNA

<213> Homo sapiens

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acaggcatgt	gccaccatgc	ctggctat	ttttttttt	ttggtanana	cagagtctca	180
ctatgtcact	atgttgccca	ggctggcctc	caacccctgg	ggctcaagca	atcctccac	240
ctcagtctcc	caaagngttg	ggattacagg	tgtgagccaa	catgcctggc	ctgtttctgt	300
ctttactgnc	cacatagcca	taccttcac	atcatataca	gaaagnggca	aatcataatt	360
aacgggagag	taataagtat	tttggggaaa	aacaggggaat	agagaacctg	gaacattatc	420
ttccaacaga	gaatatccac	atgaaaatta	aaggaaatat	agctatatgc	atgagttcta	480
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<211> 555

<212> DNA

<213> Homo sapiens

<400> 6012

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 aactgtggca tgcattgttc tagtcatgtt ggacttctcc ttcagctttg attggagtag 300
 tgttgtttcc acaatgccaa ttctaattgtc catctctaca gtttcttgct tcagttttgt 360
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 catttcttgn ttacctttt ctaattcttc cataacctca gagaggagtc tggttctttc 480
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 ccnaattct tgacc 555

<210> 6013

<211> 555

<212> DNA

<213> Homo sapiens

<400> 6013

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 tacaggtgcc tgacaccacg ccgctctgat ttttgtatit ttcgtagaga cagggtctca 180
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 gcctgtccag cgacaacat ggaaggtcac atacattctc tacaagtctn ctggtgtcac 480
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 atttctgggg naaan 555

<210> 6014

<211> 543

<212> DNA

<213> Homo sapiens

<400> 6014

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gagacagcgt ctcaccttgt catctaggct ggagtgcagt ggctccatca tagcctcctg   60
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acaggtgctt cccactgtgc ctggccaatt aacaatttca tttttatttt tagtagagat  180
gagatctcac tatgttgccc aggctggctc tgaactcctg agctcaagag atcctcccac  240
cttggcctcc caaagtactg ggattacaaa caagagccac tgtgcctgac caggctctaa  300
gattgcta at ctggctatag aaggactaat gttggccacc tcagagacat tcattcattt  360
taagaaacat catctttcac tgaatataat atgacatttt ttagaaggca cagcatatat  420
gtaccataaa gagccatctc aactctgaca taaactttgn tatcatacag catgnttatt  480
ttatgcgaat gaaagaactc ttttagatgg tttagacncc aatntntcat atnaccacct  540
ggn                                                                    543
    
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<210> 6015

<211> 530

<212> DNA

<213> Homo sapiens

<400> 6015

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ttacaggcat gtgccaccac gcctgactaa ttttttgtat ctttagtaga aacggggttt  180
caccatgttg gccagtctgg tctcgaactc ctgacctcat aatccgcccg cctcggcctc  240
ccaaagtgct gggattacag gtgtgagcca ccacgcctgg cccctgattt taagcaatac  300
ccagcttact tggatttttg ggtgaagtca gtgctgagtc tcccaactct gttggcactc  360
    
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caggggtggg acagacactg tccctgggtg cagaggccct ggaggcagca ctgccctttc 420
 ccccaaaggc caggctctga ccttgagagt ggtgggagtg ggtgacctt ctggganggt 480
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<210> 6016

<211> 560

<212> DNA

<213> Homo sapiens

<400> 6016

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 actgctcaca gagaggcagt tttaaaccac gatttaact ctacattcta aagagaaaat 180
 caaatttacc atcaagcatt acaaatgagt ataatgagtt tcttccatga actccgcaga 240
 aacacaagca attgcattgc aatctgacat tccactcacc cctgcttttc cgatattggt 300
 gaaggcaaaa acatcctttg tcctggaagt tcaccattca attttagcca tctgcagcta 360
 cttaaattta aaataattaa aatctaaaaa taaaaattca gttcttcaat ttactaccc 420
 atattcaagt gctcaacagt cacatatgac taatgnctat tggattggtc agcttggcta 480
 tagggatatc ttcattcatt ccaaaaggtt taatggacaa gcattgggna aaaatccttt 540
 gccccaaatt nttgnngnt 560

<210> 6017

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6017

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caataatgca taagaattgt taatgagtaa ataaaagctg attatactat atttattttt 180
tagtcagaat ctctcacatc aaggatcaca atccacttcc aagcaatggg taaaaggggtg 240
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gcttcttata aagggtctaaa atgtaaaaac gcatatacag aacttaacct ttaactagaa 360
agaaattatt attaattggag tgtcattcct aaaaattaca caatacatcc aactaaagg 420
ctgagaataa taattctgaa ggttttaacg actattctct tattctgaga ctcttttttg 480
ggnttttagt ggagacaggg tttcacccgn gttggncagc tgggtttgna ccccnacct 540
canggggaac cnccccc 557

<210> 6018

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6018

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aaggagtcag aattcttaaa tggcttactc agttgtatat atagttgagg gcagaaataa 180
atttattaat gaaatctatg acaaaaacaa accaatatcc agaagactat gggccaccac 240
cacacattag tcctacttac agggactggg cttcaaacat tatacaatag ctttcttcaa 300
aatcaaataa aagatttgta ggcaaaaaca taccaggat tctgaaataa tatatgtaat 360
gcctacttca ctatgggata tgtgagtcca tcaataactg tcagtttcct ccctagttaa 420
tccatatatc ccctaaatgc atgcccctgt tatgtcaaaa caattttttg agttgccaaa 480
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<210> 6019

<211> 530

<212> DNA

<213> Homo sapiens

<400> 6019

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agcatctgga cttgcttcat tagttctggg atgataactt ggtgtcaata aaaggtgtag 180
agtggaagag tgtggctatt gatctgtggg tctttaaaaa ttaatgttcc tattacacag 240
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atgagtattt taactcatga gtatttaatt ccttaaaaaat acaaactccc caaaaccag 420
gtcagctcta aacctaggga tgagcattta cttggggaca gcatgcccat tttggttaagc 480
acagaagctt ttcaccctgg ttttccannt nctggtcnna aanccngcc 530

<210> 6020

<211> 507

<212> DNA

<213> Homo sapiens

<400> 6020

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tggaagggct gtgggaatga agactggctt gacagtggta ctggagctga aggctgttgc 180
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agtgtacctg ttgttccagg aggcatgca taagctgaag atgatggtgg agctcctggt 420
cccgccatgc tggaaggatg ctncagagga aagggggang aaggaaagaa ntancaggct 480
ggangtangt gaaaangcct ggtgctg 507

<210> 6021

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6021

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atattatgag acacaggaat ctttacatcc aaaataattt gatacagatg ccttaacatt   180
gctgaatgag acaactttgg aaagattctt gttttgtgat tcctttttac cctctaagca   240
cagtgccttg ttaacactgt gtgtgtagta aatgtgtgtg ctgcttaagg taaagaattt   300
ctagtaaact aaatgcccaa ggtgactgcg tgattccatg ccagacagga aaaagcagtc   360
atgctttttg cccctagctg aacgtttgtt ttccccacaa actatgtatt catccacaga   420
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ngataattaa aatattgcta ggtttggtat tcacaaaact ggagatcctg atggatantt   540
tcctcn                                           546
    
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<210> 6022

<211> 548

<212> DNA

<213> Homo sapiens

<400> 6022

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ctttgtatca gagttgacca actgtttcct tacctgtatc aggaacatca agagcgacag   180
tatcacaagg aacttggttt aacaatacac cacataggtc cagtaatacc ctgggaattt   240
cccaatgcaa tcaccaactt tttctttttt tataaatata taaaaaaca aaaagtcagc   300
aaaaccagca ttatgatgta gcaagcagag tataactctg aagtcagtgg ggtcagtaaa   360
    
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agccttatca gaccatccat agttttacaa tgtgatctgc tcttcctcag accactaata 420
tagaatccaa acaggtgaaa aatcgctcact ccttagaata caacaatgat ctgataagga 480
tttgacttan tggaangnaa aaaaaaaaaa aaaggggatt gccnanccta acccttttta 540
acaacttn 548

<210> 6023

<211> 543

<212> DNA

<213> Homo sapiens

<400> 6023

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tnc 543

<210> 6024

<211> 599

<212> DNA

<213> Homo sapiens

<400> 6024

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 aaaagaaaac tcgccttccg ctcaacgccc gctccagact tgccaccaac cttcatcctc 420
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 ctggggagcg gggggaccac taggacaaaag ggtctggctc atctaccggc gcctggaggt 540
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<210> 6025

<211> 585

<212> DNA

<213> Homo sapiens

<400> 6025

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 agttatgagt ttgcattcaa acaaagaacc accagataaa acagatgttc tctaaaactg 240
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 cctcaagaag tccctatttc catagcctca atcatgaata nggcttggtt ttggganatg 540
 gaactattaa cngcaggaat gcctatactt canagccttn tantt 585

<210> 6026

<211> 534

<212> DNA

<213> Homo sapiens

<400> 6026

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ttacaggcat gcgccaccac acctggctaa ttttgatatt ttagtagaga cgggggtttct 180
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TTTTTTTTT ttgagacaga gtcttgctct gtcaccagg ctggagtgtg gtggctggat 360
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agtagctggg actacaggca cccgncacca cgcccggnta antttttgga tttttaagt 480
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<210> 6027

<211> 555

<212> DNA

<213> Homo sapiens

<400> 6027

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tggtttgtcc ataccattct aattaacatg aaagggtctt gcatatagag agattgtctc 300
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tcaacactct tgctctggc ccaaatgggg cgctatttaa gggaatttaa agagaaagct 480
gagaagaata acntttancc gagnetctt ggcatttaan ctcttgaaaa ncccnggatt 540

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aaactattca tgcng

555

<210> 6028

<211> 584

<212> DNA

<213> Homo sapiens

<400> 6028

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ctcagcctcc ctaagagctg gcattacagg cgtgagccac tgctcccggc cttgttttat 120
gcatttttcc atatgtaggt aatagctcat aataaaaggt ttttttgaaa atacacaaaa 180
aaactacat tacactccca ccagactgga aacaatttaa aagtccaacc aagtttaatc 240
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<210> 6029

<211> 536

<212> DNA

<213> Homo sapiens

<400> 6029

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gctggagtgc agtggccgtg atcttagctc actgcaacct ccgcctccca ggttcaagng 180
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<210> 6030

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6030

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cgtcgaataa cttaaacact ttcaaggcaa gtctggtttc tactgtttcc cagcaatcat 180
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<210> 6031

<211> 563

<212> DNA

<213> Homo sapiens

<400> 6031

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gtgacttgaa tttgatctag ngaaatatat actcacaag ngaggaatta tatctagaaa 180
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tcttaaaagt aagaataaat ttcagccagc cngacatgac tctattcaac aaacntgatt 480
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tttttaatta anggtanatt tta 563

<210> 6032

<211> 503

<212> DNA

<213> Homo sapiens

<400> 6032

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gacccagggt gctggaggcc cggggtcacc tgaggactgc anaagtcctg cgctccgnta 180
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<210> 6033

<211> 569

<212> DNA

<213> Homo sapiens

<400> 6033

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 gtttcttttt tgatcatttt tatttttgct tccttgctgt acacacctct ctttgaaatc 420
 attccttatg gctcctctta ccatattcct tcatcaagt taatattatg agatttctcc 480
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<210> 6034

<211> 582

<212> DNA

<213> Homo sapiens

<400> 6034

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 cctctttgac tgaaaatgac acagaaaaag gtgatcaagt cttccagggc ctgctgttac 180
 tgatggagac tacagctaca atgaaaaatt actctcacta ccatatcttg gggaaggagc 240
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 aagagtggcg atttgaggnc cttcicctgg aaagtgaata gctggagttc tgaaaaatgg 480

tcccttctct ggactgnggg tttatttctt gggatcttgg accaaaggan ggncttgggt 540
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<210> 6035

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6035

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ttgaccccat aatttattat aaagtaggtc ccataatcac attttttgga agttgctgaa 180
attgagataa aaaatattgt ttttttatga gaaaaaccgg acaaaataca gaatggccaa 240
aactagatta actggctcag ttatgtctac taggtgaaag aaaatacaga atctgttact 300
gtagaaattt taagaggttt tgagtcagtt ccagtataaa aataaggcca aagttctcct 360
gtaaaatcat cattaaaagt cagagaagag atctatcatt caaattataa aaggaaacct 420
cattcatttc acagtctaaa aaaaatgcc aatcttactag gnggtacttt tggcagcaga 480
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<210> 6036

<211> 542

<212> DNA

<213> Homo sapiens

<400> 6036

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<213> Homo sapiens

<213> Homo sapiens

<400> 6038

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atattcaata cgcaatacaa acctcagtaa tccaattctc ctaatatgca attatttata 240
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tttggtagt ngaatcgcc caacctaaat tcctgngngc ctggaaaata ccacttttta 480
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<210> 6039

<211> 577

<212> DNA

<213> Homo sapiens

<400> 6039

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gagggaaga ggcgataagg agaaggctag ggcaggcagt gctcaccttc ttcaggatga 180
tatcgatgta gccggcaatg agctgtgcaa tctgctcccc ttcagttgtc tgtactgagt 240
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gctcaaatct atccaggatg gaaatggcta ggatgggagg cccaaggttg agctgatgag 360
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ttttctcctt ggagggaat ttttacttct gaggagtggc ctctacacta caccagtten 480
aatccatata atttaaggaa gtctcttaat tttactctga tgataaaatg agaggattta 540
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<210> 6040

<211> 607

<212> DNA

<213> Homo sapiens

<400> 6040

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gtatccccct cggtatatac tagcctgcaa tgaagaaaga acgagaccca catcatcagc  180
atggctccta gtcttggcat cagtcaaagg tgcaaaagca ttcattggcac caacgccgta  240
ggtgggggct ggagcaagtg cgtgggtgga ggggtcggca gcataaactc gtccgtaact  300
gtcactgtag gcagcggcag tggcaggggt aggctgggcg tagcggtatg cagcataacc  360
accataaatg tctgcaccat aaaatccatc ctggtaaaca acacccgccg taggcccggg  420
atcggggggc ggggccgccg cggccctgaa ggtgttgtac acggtgcgac ccgcggncctc  480
gcaagtgcgc ccctcggtaa gcggccccgc ggtggcttct tggataccgg naagcctggc  540
anttgcanaa atntttccaa gtgaactggg gggcncctgt catggaaaaa anccctcctg  600
ggtgggc                                           607
    
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<210> 6041

<211> 592

<212> DNA

<213> Homo sapiens

<400> 6041

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cccaagcaat tcagtaaaaa agttatactc ttaaccacta tagtatgctg cttcttcagt  120
atttacatat gtttgtcagg aagaaataac tttttttttt tttgagacgg agtctcgtc  180
tgtcgccagg ctaaagtgca gtgggtgtgat ctcggctcat tgaaacctcc acctcccggg  240
    
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ttcaagcgat tctcctgcct cagcctccct agtagctggg actacaggtg tgcaccacca 300
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ggcgtgagcc accaagccca gcctgaaata atttcttaac aatgcctaac acagngcttn 480
catacatttt aagaactaat aaatacttgg ttcttccaaa attggcaggc accaaangta 540
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<210> 6042

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6042

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cctagtggct aggattacag gcatgcacca ccaagcccag ctaattttcg tacttttagt 180
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caagccataa gcatgtctct attttaaaag taactgggtg cttgggggtgn ctncctacca 480
gaccctaagc tctttingga ttatgtcgga caatcttctt canagtcact gggccccaat 540
atntaacang gatcctaana cgggttaagc attttccaaa ngcttnctaa a 591

<210> 6043

<211> 606

<212> DNA

<213> Homo sapiens

<400> 6043

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 ctcccattct ctctccctac taagcaacct ctttcttctc tcctgcagct cacacaatgt 180
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 gtaaaggttt ggatttccat aattcttttt taatcagtgn aaacataaaa taaggttttg 540
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<210> 6044

<211> 582

<212> DNA

<213> Homo sapiens

<400> 6044

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<210> 6045

<211> 589

<212> DNA

<213> Homo sapiens

<400> 6045

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aaagttacat ttccaattac aaatcaaaat gcatattagg gtctctttat gggagaagct  180
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gcacaaagat taaggtcata tacagtcaat ctgcaaagt tgacacaatg ttacactgta  300
aattttctgt acaattaaat gtatacttag agataccagg ataaacattt ctactatatt  360
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ggtaccatat tacactcaga ttctactgna atatttttag aatgtccgng ccaattgngc  540
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<210> 6046

<211> 454

<212> DNA

<213> Homo sapiens

<400> 6046

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attacaggta ggagccgagt ccatagggtt attgngagga ttcaatgaga taactnatgc 360
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<210> 6047

<211> 584

<212> DNA

<213> Homo sapiens

<400> 6047

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<210> 6048

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6048

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<210> 6049

<211> 590

<212> DNA

<213> Homo sapiens

<400> 6049

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<210> 6050

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6050

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 aactgtcaat catgatgcac accgatttaa tacagtgttt tggtnzcaag acttttctca 480
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<210> 6051

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6051

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587

<210> 6052

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6052

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aaaaaggaat aagttatttt ttttgcttg tcttttttcc aaaatttttt cccaaacttc 180

atttctaatt atacaaatga ctaaggacca gtttaacaaa tcgtttttat gtatatatta 240

catgctttgg aatatagata gaaaatgttc caaaaaagtt gttcagaaac ttttctattc 300

acaatatgaa caagaaactt gtataaaaga aggggggaaag gagcaccttt tatgtaattt 360

tgaagcaaag atgacaaaaa agatcaatct ggaatatgga aatcatttgc tttaaaaaac 420

aaacaaacaa aaccctacaa taaaccatag ctaattagtt cttccangga aagtttgagg 480

nagtttagcc tcataattaa atccccgnag cttgggactt tttggcctng tgggggtttc 540

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<210> 6053

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6053

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taaaggcatg caccacatg cccagctaac ttttgaattt ttctgtanag atggggtctc 180

cctatgttgc ccaggctgggt cttgaactcc tggcctcagc aatcctccca cctcagctct 240

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 aactgccctt ccttctttcc cacctaaact gccctgccct cccctctcct ccactcccct 360
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 ggactaatcn ttaatttttt gnggggatgg gacctactat ggtggccaag ctgggcttaa 540
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<210> 6054

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6054

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<210> 6055

<211> 595

<212> DNA

<213> Homo sapiens

<400> 6055

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<210> 6056

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6056

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 gtcaaaatca aaggcaatag taatttcagt tccctttgga atactgtgta tagaataaat 180
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 caaatctttt gcagatttaa gaattttctt atcttttgga tatggctctc tacaggaggt 480
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<210> 6057

<211> 429

<212> DNA

<213> Homo sapiens

<400> 6057

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gtccccctcc tngacatcca ccttacagcc cagtggggac accaggttca gcagaggggtc  180
ctcagaggca cggccgaaga gcgccagcag gagggccaca ccgaancctg tggctcgctc  240
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gatgtgtgag gcgatgaaga ggccagcaca ggagctgggg ctgttgtctc ggtccgccac  360
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<210> 6058

<211> 533

<212> DNA

<213> Homo sapiens

<400> 6058

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ttagcaattc catattcctt acaaagtcag tataattggt gtaaaaaaat caactgtggt  180
tctgaatacc cattcacagt tgacctcaac aatgtatctg atgtaggaga ctgagtatcc  240
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atatcagaag gcttcacatc catagtttct gataaaggac ttttttgtat ggaatcctgt  360
tcactcaaag tatgatcctc tgcactggag tctagagttt tatctgcacc agaatggact  420
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<210> 6059

<211> 523

<212> DNA

<213> Homo sapiens

<400> 6059

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cacacacgct cacacacacg cctcactcac acacatgctc acacacattt tccttcttga 180
ccccaggcct ggacccccaa aagccttgaa gactttgcca gagcagcctc ccctcctcca 240
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gccgaggggt cccaggggta tgctgcgctt ctggggggaga tgaagggttt ggcaccattg 420
gatcaggaag cacaggactn ccagagcacc catctgntnc accangggca tcgncaggaa 480
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<210> 6060

<211> 585

<212> DNA

<213> Homo sapiens

<400> 6060

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cagcctccca aagtgtctggg attacaggtg tgagccactg tgcccggcca catctgtact 300

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ccttctgggg gaacaaggac tgtcgtgcat gtgagtgacg acattaataa gcatttacat 480
actgtacaga tgcaaccttt tgatgatnca tatantttga taaaaattga gaaaacngnt 540
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<210> 6061

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6061

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tactctatgc ccaggctgga gtgcagtagc tcaatctcag ctactgcag cctcaacctg 180
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<210> 6062

<211> 586

<212> DNA

<213> Homo sapiens

<400> 6062

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 tgattggtcc ggggtcatgtc ttggggagca ncanggtga aaactgtagg gccaggagac 480
 tcagaaggaa atgccttcta ctaggacctt nccaatgaag gggagccctt ggacctgcta 540
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<210> 6063

<211> 579

<212> DNA

<213> Homo sapiens

<400> 6063

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 tacaggcacc tgccaccacg cttggctatg atttttgtat ttttggtaga gacagggttt 180
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<210> 6064

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6064

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gtatgccacc aagcctggct aatTTTTTTT tTTTTTggag agacaacgtc tcgctatggt  180
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attttattcc ccttcatecc ccttttctca tcccctaagt aacatctggc aatggTtaaa   540
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<210> 6065

<211> 599

<212> DNA

<213> Homo sapiens

<400> 6065

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aaaaaactta attcttcaaa ttcacgaata ataattctac atattcgtgg ggtagaatac  180
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actatagtca tgctatagtg gtacacaaca ctagggctta ttcctatggt attttgcac  360
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tgtcctaatt tttacttcta taagattaac tttttaaaac ttccacatga gtgngaacat 480
gcattgntta attttccatt ggtggcttat ttcacctact ataaaggnci ncagntcctt 540
tccatgttgg ctncaaaatg aaanggacat tcttttttta atggctggaa tagaatccc 599

<210> 6066

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6066

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<210> 6067

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6067

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<210> 6068

<211> 348

<212> DNA

<213> Homo sapiens

<400> 6068

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 cgtgtttgaa attcacataa ggngcactta naaaaccacc tgaaatggaa atccaacagc 180
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<210> 6069

<211> 579

<212> DNA

<213> Homo sapiens

<400> 6069

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<210> 6070

<211> 561

<212> DNA

<213> Homo sapiens

<400> 6070

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<210> 6071

<211> 586

<212> DNA

<213> Homo sapiens

<400> 6071

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<210> 6072

<211> 560

<212> DNA

<213> Homo sapiens

<400> 6072

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aatctggtgg tctcatcaag tttcttctgg aatatttcag cttcttcaga gtcaaaaact 480

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<210> 6073

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6073

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<210> 6074

<211> 560

<212> DNA

<213> Homo sapiens

<400> 6074

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 aacatttatt cttccaatct ataaacacgg gatactttc catttatttg ggntttcttc 480
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<210> 6075

<211> 518

<212> DNA

<213> Homo sapiens

<400> 6075

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<210> 6076

<211> 564

<212> DNA

<213> Homo sapiens

<400> 6076

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<210> 6077

<211> 565

<212> DNA

<213> Homo sapiens

<400> 6077

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<210> 6078

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6078

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gcaagtctat ttgttcttta atatatcggt tagctgttca agacctttct gttcctgttg   180
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<210> 6079

<211> 472

<212> DNA

<213> Homo sapiens

<400> 6079

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aggcaaatgt gtttaataaa tggtaatggg acaaactgac tagtatttcc atttggaaaa   180
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taatcccaac actttgggat gccaaaggcag gtagatcact ttaggtcagg cgttcaagac   300
cagcctggcc aacatggtga aaccccatct ctactaaaaa tacaaaaatt agctgggcat   360
    
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<210> 6080

<211> 356

<212> DNA

<213> Homo sapiens

<400> 6080

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<210> 6081

<211> 569

<212> DNA

<213> Homo sapiens

<400> 6081

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<210> 6082

<211> 524

<212> DNA

<213> Homo sapiens

<400> 6082

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<210> 6083

<211> 556

<212> DNA

<213> Homo sapiens

<400> 6083

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<210> 6084

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6084

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<210> 6085

<211> 528

<212> DNA

<213> Homo sapiens

<400> 6085

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<210> 6086

<211> 561

<212> DNA

<213> Homo sapiens

<400> 6086

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<210> 6087

<211> 520

<212> DNA

<213> Homo sapiens

<400> 6087

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acaggcatgc accaccatgc ccagctaatt ttttgatatt ttagtagaga cgggggtttc 180
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<210> 6088

<211> 526

<212> DNA

<213> Homo sapiens

<400> 6088

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aaggtgtatg ccaccacgcc cagctaattt tttgtattta gtggagatgg gatttcacca 180
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aatgccacag ctagacattt atcctgnaga attaggagac caactgnatt agaatatntn 480
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<210> 6089

<211> 577

<212> DNA

<213> Homo sapiens

<400> 6089

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ttttttctct aagcaatatg caaaagataa caatatttaa ctacaaatat ataaacaatt 180
ttagtattat actaaggatt gtacttgaag aagttacaat gtaatggaaa taataactta 240
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caattagtgc agcagcagtt ctgggtataa tatatgacaa ccaagtttac tggtaagctt 360
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<210> 6090

<211> 589

<212> DNA

<213> Homo sapiens

<400> 6090

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<210> 6091

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6091

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<210> 6092

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6092

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<210> 6093

<211> 561

<212> DNA

<213> Homo sapiens

<400> 6093

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<210> 6094

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6094

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<211> 588

<212> DNA

<213> Homo sapiens

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<211> 581

<212> DNA

<213> Homo sapiens

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<210> 6097

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6097

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<211> 587

<212> DNA

<213> Homo sapiens

<400> 6098

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<210> 6099

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6099

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tgaaacttca aatagggtca caagtcacag agctgaggaa tgctggcttt aacttcttta 540
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<210> 6100

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6100

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<210> 6101

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6101

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<210> 6102

<211> 577

<212> DNA

<213> Homo sapiens

<400> 6102

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<210> 6103

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6103

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 ccgnggagtc cttntatcaa tggccagcag cttttgcaac agcagctggg ttcattccctt 480
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<210> 6104

<211> 582

<212> DNA

<213> Homo sapiens

<400> 6104

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gcatttgcca aaatataaaa tgggtgttgct gaccccaatt ctgggagatg gtacttgaat 480
cttactgngc tctgagactt cttttcatan gccacaaaaa ggnaatgcca tatacctnat 540
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<210> 6105

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6105

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573

<210> 6106

<211> 590

<212> DNA

<213> Homo sapiens

<400> 6106

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ttaaaggctc atcttgatag gaatagaaac aaaagggttac cccatagttc tcttacattt 180
ggaagttagc tatatagagg gtacaaggat attcattttc cttcaggaca aagtcattctc 240
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cagagatgat gaagtaggtg gatcttttct tgggttgctn ctaaactctt tcattttaac 540
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<210> 6107

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6107

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tattattcaa gagcatgtag tacttgcaaa tgatcaagca ttccaaaaa aaactgcccc 180
gccctattaa atttataaaa tatttctgca atacagctgg aataattaca aggtacacaa 240

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 tgggtgcggt ggctcgcgag gtcaagagat caagaccatc ctgccaacat ggtgaaaccc 480
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<210> 6108

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6108

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 catggttgga gcaggaggaa gagagcgaag agggagtgct acacactttt aaacaaccag 180
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<210> 6109

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6109

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aatagttcac caaaatactg tcttatttgt aaggaagact tcatgatatg aatagctaac 120
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<210> 6110

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6110

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<210> 6111

<211> 569

<212> DNA

<213> Homo sapiens

<400> 6111

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<210> 6112

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6112

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aagtgtaggg ctgtgactgc anatctggaa gggctgaaag gtagatctat gttcctttta 240
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attgttggca cggatgtggt gaaaaggga cacttttaca ctgctggtgg aaatgtaaac 420
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<210> 6113

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6113

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<210> 6114

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6114

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<210> 6115

<211> 560

<212> DNA

<213> Homo sapiens

<400> 6115

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<210> 6116

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6116

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<210> 6117

<211> 560

<212> DNA

<213> Homo sapiens

<400> 6117

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<210> 6118

<211> 553

<212> DNA

<213> Homo sapiens

<400> 6118

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<210> 6119

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6119

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aagtgctggg attacaggcg tctgcaaccg cgcccagcct agtgttttgt atgtttattt 300
tctcacttaa tatactatgg aggtgttttc ctatatctt catccttaac agacaatact 360
gcattgactt tatcataatt tgttttaaca atcccataat aatgaacatt taggctgttt 420
ttagtcctct gctgttaatg ctatagtgtg catcctagaa tatccatctt tataaatttc 480
tctaatttcc ttgnaataat ggttttaagt gnaaaaatgg tgggtcaaaa aatgaatcgn 540
atttnaatg ggtaatat 559

<210> 6120

<211> 476

<212> DNA

<213> Homo sapiens

<400> 6120

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tcagggactg cccgcctggg agcagctgtc attggacact ggagtcaaga ggaggcacag 180
tctcctgcag tgaggggagg tttgcacccc accttgggag tgtggccttc atgaagacag 240
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ggctgttcca agcagagccc agtgggcaaa gatcaggact cctatccaca ttctgagtaa 360
gggaggatgg agccacctt tgtgcctctg gtgagaggca gtgcgatata acaattaaat 420
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<210> 6121

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6121

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 ggagaccaga tcccttcctt cctgggttga tgattggtgg gatcttcctc tgagcatcct 180
 gaacatattc atttaataaa tatttattga gcacctgctg tgtgccaggc actgtttgat 240
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 ctagtgcttt atgttgaata gtgctaagtg tggaagacaa ataataaagc agaatggtat 360
 tctggaatat cagggttaagg atgaaggcca gtttttgaat aaagacctga agcaaggcca 420
 ctggcagtga ttttttgggg aagaacattc caaacagggc atggcttggg tgttgacac 480
 gtgttagang gacagcatan gctggtatgg ctgcantgga atgtcccaag tctaacccca 540
 aattgagttt anaaaggctt nt 562

<210> 6122

<211> 487

<212> DNA

<213> Homo sapiens

<400> 6122

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 aaatactgga ttgatgaaaa taaatagata acaaaaaaca atatacatca tttctatggt 180
 tgctatcaga ccccaacaagt atgtttgttt ttacaattca ttataggatga aaaacaaact 240
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 agcttttctt aataaaatgg gaacacattg ctaggtacac agaaacatga ttttgccta 360
 aagaacagct gaactgttga gagaagcaag ggcttcctag cggccttcca gtgtagcaga 420
 taatattacc ctgtgtaaca gagtattaca ggtttgcat tttccaagtc tgtaagtcta 480
 nnnnnnn 487

<210> 6123

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6123

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ggaatatttg tattatactt atcagttcag cttcccta at gcaaaattcc aaaatctgaa 60
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cgggcgcggt ggctcacgcc tgtaatccca gcactttggg aggccgaggc aggagaaatgg 180
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cagatttcgg atttttggat taggaatact caacctatat ctccagttgg ttatcatctg 360
tgttttctct tttcttccag tctgataaaa atcaaagtat taatctttag agcaccatgc 420
gagatatagg gaaaactata tagaaaatac cgtgacatat attttttagat ctgcattaag 480
acaaagctat tatcggggaa tgggtgctaaa ctttanatcc ttccattaaa gaaaagaatt 540
nagatgnctt attggaatn 559

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<210> 6124

<211> 560

<212> DNA

<213> Homo sapiens

<400> 6124

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aaagtcaatc tagatggaaa acaagttata gggataattg gcaaagcctc cttttctatc 180
cctctctaag accccttttt gcaaggacta gaatgtgaag tacgtaagtg taaagaagtg 240
ttcatgaatg tgttttaatt cattcaaaga ggtattttta aagaaagatt tcaaatacaa 300
gcaaaagagg agaattgtta gatgaacata actgtcccca gaccaacaat tatcaattcg 360
tagccaattc tgttttattt ctgtccctag gaatttgatc ctttcaatta tttattctct 420
caccataaat acttgtcaga ggaagaatcc acttcatagt ttgcatcaga aaaggatat 480

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gggacgttta ttcttttagct tttagatata ctgggtttct aataaatttt acnggaaccc 540
tnttcctaa aagaattcna 560

<210> 6125

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6125

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gcaacctctg cctcccgagt tcacgccatt ctcctacctc agcctcccaa gcagctagga 180
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gcatgcactt ctgccacctt gcacattgta gactaacaga gtttcacat tcctgtctcg 420
ttgccaacc actcaccttc ctcaagaccc caccttcaat tcctgcttaa aatatgtaac 480
atggattctc cttgcttttt aagataaaga cccaaatcct tatactgact gnaagccctt 540
tgggggtacc tatgnctanc ta 562

<210> 6126

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6126

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aagtttattt agtaataaac ataagtcag gctgacaact gagaaaatcc tattcacata 120
aaccatcata gattaataat acatagtatt tgtactttta tgcaataggg tcccaggatt 180

caaacaagga aatttgattc cagagttggc attatgtagt tatgtactct gctacaaaga 240
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 atacatggct ttgcatccgt agaggaagat cagttccttc agcacacgtg ccaatttctg 360
 agtcttcac tagagaatcc tcaacagttt cttcttcaga atcaaattcc tgattatcca 420
 gtgattcaaa attatccaga ggttcacat tcagctctct attagctctg ccatactctg 480
 acatggctctg ntacttntgg cagtctttta tccccctttc agnggcaat tcaatggcct 540
 ttgncaatt ctttttgaag ttctcn 566

<210> 6127

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6127

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 tcgccaagca tttcaagccg ctccaggtta aatccgtcac tagcgtttga cagagtcaaa 180
 gcctgaagaa taagtccagg attggggcca agagtccttg aggagtacc aatagaaggg 240
 ctctgctcag aatccatcct gcccttgagc acttgaatag tgtctgtcgt accaggcatt 300
 acggccatca caggacttcc atctgaggta gatttggttag catttccatc aaggtattta 360
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 aaaaaaanc ctttaattggt gggaaaaacg ntgg 574

<210> 6128

<211> 572

<212> DNA

<213> Homo sapiens

<400> 6128

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aatagctagg actacaggcg cacgccacca taccagcta attttgttta tttttttgta 180
gagatgagtt ctcactatgt tggccagggt ggtctcaaac tcctgggctc cagtgatcct 240
cccacctcgg cctgccaaag tgctgggatt gcaggaatga gccactgtac ctggcccaga 300
gcataccttaa tgtggcaagc acttctaggt aagtgttaag tatagaaaca taaagaagac 360
caaaccctag catcagtgat ctccagttc aggagaaagc ggtaattaaa catacctgtg 420
ccagacaagt gcaatgtaaa tgtgttcagc acaatcaggg gtatgcacaa tgggcttttag 480
ggaaacagag tanaggcatc aaagtcattc ttataggcat gtcaggaaag acttgggaagc 540
atttcngaa ntttgggctc aaaanatgng ag 572

<210> 6129

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6129

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caaacacaaa gggcccagca ggctgagcaa aagaacagag acactctccc tcactaccac 120
tgggcgcctt ggacagtccc ctgaggagta gggggcatcc agtctttggc acggtgcctg 180
ggggcaggaa gtgactagca tgatcccagc taccctcttg tgggaatact gccaccaaga 240
ggcagctctt tggctctgat aaagtcagtg caaatgtcca ggggtcaagc tctggaggaa 300
tgagggtggc acagtgcctt agggctgggc agtctctgaa cagtctcctc agccctcatg 360
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tgcggacaac atccccaatg cgtcgagccc ccgatttctc cagctcacca gcacattggc 480
ctcaaaggca atgcttgcac acngaanaaa aattctnggc attnttacct cgnggagatn 540
aaaaatgnca 572

<210> 6130

<211> 534

<212> DNA

<213> Homo sapiens

<400> 6130

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cccgaggaag ggaccaata acctttcaaa acgcaaactg ctgcctgcgg tgagggccca  120
gggtcctcca cggagaggac aggcattctt ctttcccacc aggaaggagt gagcccggag  180
cctctgctat gcgcaaggcg gtgtgcaggc accggctgca gctttttgct ctcttctttc  240
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gggaagcccg gaggcagtgc tcggcacccg ggaacgtgct caggcctcgg tggggcccgg  420
gcaggcaggg cgggagctag cctgaagcgt ccgggttctg ctgcaacgca tcttgnacca  480
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<210> 6131

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6131

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aaatgcaaaa taaaaaaagc tgttgataca tcacctcgaa aaattaacac aactaaatta  180
agggctatag aaaatatgtt cagcttatat catacacgtc atttaacttg aattttacaa  240
tttttaaact aatagaattc agatttatta cttgaaataa tggatatccc agctgttctt  300
cataatggca agcatattcc atatacaata caatttatat agcatagttt tatactctta  360

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agtaaaatat gttagtatt aaaagcataa aggaataaat atgccaagcg caaaatataa 420
 taatggaata gacttatgta ggtattaaaa tactgcataa tgacaaatac tgaattaata 480
 caactttcct attattcata atcataatat atgaagagaa aactgntcct atgccngggt 540
 ttttttttct ggaaaaaac tttnggggtta taccntt 578

<210> 6132

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6132

accaatttgc aaaatttaaat tttatacaca tacacaaata aaacaatttt taacaaattt 60
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 acacgtacat attgtaaaa atagttgact ccacattatg caatatacta tagcaaagga 180
 atattaaaat agtagataag aaagggcact ggagttttgt aaaacaggaa aaaagaagtc 240
 ctgtatttta tacattgaat atttatccac aatagcataa tttgtctgaa aataaagtaa 300
 tgatctacaa ttatataaca aggagtatct tgggatattt caataattca aacatttatt 360
 ttttagaaaa gtggtatagc aaatgagaat tatgcaacta aatcaccatt ctaagaataa 420
 aatgtcaaaa ataatcctac atgacatact tggaaatggt catatccaac aaggcaaacc 480
 aggtnaaaan ggaaactaat tccaatagg aagcaatatt taccanggtt tgccctttgg 540
 ccttatctaa atatggggcn cctannggca gatactg 578

<210> 6133

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6133

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 gcgcgccacc cctcagtgcc ctatccgcac caccatcaca gtgacgttgt cggttgagcc 180
 ccgctgcacc gccttggttg ccagcctggt gcaggctgct tcgtagcggg cgtcggctgc 240
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 ctgcccgtcc ccaatggagc gtgacacctc tagcacgccc aaaacacgcc catccctgac 480
 gtttccttca gtttctgnat cctcatnecn tcttcatact gagttngaat atgctctttg 540
 ctgangctta angnttgatg gtttgacttt ctaata 576

<210> 6134

<211> 572

<212> DNA

<213> Homo sapiens

<400> 6134

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 tacaggcccc tgccaccacg cctggctaata ttttgtatgt gtagtgaga tggggtttca 180
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 tggatgaatga aaatccctgg ttaaacttac cttctcancg gcaggaaggt naanggcttg 540
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<210> 6135

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6135

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ccgggtatcc tggaaaagtt tgtgtgcttc atacacagat aacattagca tactcataaa   180
aaaggctctg gccaaatggg atcatttggg ttttgaaact ctagatattt gggatatcca   240
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attatttggg tccagaatag caacaagagc tgggtgtagc tactgtttct caggctgggt   420
tttacgtgct tttggtagct tcataagccc caaatccttt tctgggntca attctataac   480
atgggncgtc ttctaaactc ctcggtacta ctggnaagtt gggncacggg caacatggac   540
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<210> 6136

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6136

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tacaggcacc cgccaccacg tccagctaatt ttttacattt ttagtacagg gtttcaccac   180
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agataaacac tgtcttaaga attagtacta cgccttaaaa aaaaaaaaag gcttttcaat   420
tgngaaacat cacagcaaaa taagttcatt tttacaacta gtaaaatatt agactatcat   480

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aattatcaaa gtttatgatt catagnaaaa tgggtagac tcagaatgng aaattagnt 540
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<210> 6137

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6137

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ttcaaaaact aatggaaaaa attagctaag aatatggtta aaccatactt aanaagggtgc 540
tggntgncat taaganctta acatgcnnaa naagccctct caa 583

<210> 6138

<211> 514

<212> DNA

<213> Homo sapiens

<400> 6138

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agccctgccc caccctctgc cctgcggaag ccaagtcacc agctataana ccctgccct 180

cctggnngcc caggaccctc aaagatgcac acaggggccc cagcgagggg cccctccgtc 240
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<210> 6139

<211> 572

<212> DNA

<213> Homo sapiens

<400> 6139

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 ttttcttgct tgctcaggac tattaatttg acaaggttgg aatgtgcaca gcacagctga 180
 gacaccacca ttttaacact gaatcactat accatgaact gacagaaccc tgcatgaagg 240
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 atatgatgct aaccgcattt aatttcgaag tggggggaaa cagggcattg ggagtgaata 360
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 taaaaagtga gttaaaacag atgagtttta aggtccatct caactctaaa tgagatccta 480
 gcaaaaccan ggaatcncc ctttagatcc ttatgaaacc caggaaaagg tggggcccag 540
 tgcttacctg aggcacagtt ggaaccaccc tn 572

<210> 6140

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6140

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aactctgtca tcatcccagt gtgaaagtgt tttagaaacc atatatgtaa aggcagggtca 180
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cnaatgnatac tatcanttgg tanagccttt agn 573

<210> 6141

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6141

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tgcaggttgg catgcacaag catgcctgga tggcctcctg agtgcttggg anaacttggg 540
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<210> 6142

<211> 569

<212> DNA

<213> Homo sapiens

<400> 6142

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aagactctgt tatgatttta tttcttcaat tgttccaatc acagtttcta atacagaaat   60
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gtttccaggc tccaatagca gttctgttaa gaacagacag ccagtatcat cctgagcact  180
gaggtatgct ttccatggcc gagaccagc cctactcatt gcgatggctt ggatgttcac  240
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ccgatgagca actttaaggc taagccaagt tttctcaaaa taatcagcag taagctggcg  360
attggggact agcatgaggg ctccagaatc agggagtctt tgtaccctct ccttgttctc  420
ttcaggaatc aagggtccta aaagagacag aaaacttgtg tgaaagatgt tcttaatctg  480
taggactaag ntttttatnc aaattccaaa tgtcccaatg nggcctttat ttttggacaa  540
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<210> 6143

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6143

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agtccttggt gcgtatggac ggaaggctcc ctggcaccca gatgtctccc ttcgtcctgg  180
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agttcccctc gcacccttgg gccaagcttt tcaagtccga gtgccaggac tggatgagct  300
ggggtttgtg tgtctgctgg cggcacagtg ggtgtgcaca agaccacat ttgggtatct  360

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aacaaacaca ggctcacaaa agggattttg gcatactga caaagctttt tgtctgaaaa 420
gttgattga gcttcctttc aacttcactt tatcgtaggt gtagaattaa gtttcggacc 480
tggccaggcc ganaagccac tggatgggtc tccggcatgg atctgnccct nagggcccca 540
tcaggaatgg gcaaagaact gccttaccag 570

<210> 6144

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6144

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gtgcgcctgg ctaatTTTTg tatttttagt aaagacaggg tctcaccgtg ttggccaggc 180
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aaacaatgcc tagaatgaat atggttcctc attatttcta tcaaactact acaaatactg 420
aagaatccca aagtagtttt ccacagaggc agaaaagcag ttcaaggggt tgaaaatctt 480
caatattaat aagccctggg acatttnaat gggactttat atttcaaggg aatgcaattt 540
gaatcataat cantatatat tggcccaaaa agtaccttaa ttc 583

<210> 6145

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6145

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aggccccaag ctcagcagca gagagtttat aaataaataa attacaaaag cgggcaggga 120
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 tccgctgtaa gtcctcctcc tcctgtgcc cgcgccgtc ccgctcctcc tgctcccgtg 240
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 gtgtcctggg aggggatcct gggcccctgg gctctgtgga cagctgcagg ctttcctgga 360
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 cgggcccggg tggttggtcaa gggcttcca gacggtcacc tgctccgct natgcccgt 480
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<210> 6146

<211> 579

<212> DNA

<213> Homo sapiens

<400> 6146

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 tgtgtgccac gacatccggc taatttctta attttctgt agggatggga tcttactatg 180
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 gcatcactgc tggcgtctcc ccctaccaa cgccagccct tacttacct ctattctctc 480
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<210> 6147

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6147

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 aaaagtggc ctccctctca tttctttttg ctttgacaat taaaacatca gacactactg 420
 ttcaaaagca ccccaaagac cagtgcataa aaacaggtag cccctaattc atctgcataa 480
 gacataactg nttatcaaac cgattataat caagcatttn cnaacagctg gcttatttct 540
 caaaaagcat ttggcttaaa antagaatgg gatatnccaa t 581

<210> 6148

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6148

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 gctgtgaatt ttctgaacca tgtatgtgaa ttaatttgca caggttttcc cccattactt 180
 agatgtacag gatttctttc ctgtgtgact tctcacatga ccttgaaagg ctttgggaca 240
 actgaaagct ttccacatt tttcgattt actgggcttc tgtccaatct gcgttcttac 300
 atttttggaa gagcaaagcc cgcctgaagg ttttcccaca ctggctgcat ttacaggttt 360
 ctccccagtg tgctttctct catgtttgtg taaagatgag gaccaacat acgttttccc 420
 acacgtttca catttataga ctttctctct aagtttgnga tttgacatct gtggaagggc 480

caagncttgc ggaagacttt tccaacgctg gcccanttac anggttcttt tancatgcgt 540
ctccccgggtt gggtaaggat aaggncacc naa 573

<210> 6149

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6149

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caacctccgc ctccccgatt cacgccattc tcctgcctca gcctccctag tagctgggac 120
tacaggcgcc cagctaattt tttgtatttt tagtagagac ggggtttcac cgtgttagcc 180
aggatggctt cgatcttctg acctcgtgat ccacccgcct cagcctccca aagtgcctggg 240
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gtaaaatgaa tgtttttgac ttgtgagggt ctttggtagt atctctagga ataaaatagc 420
ctactaaaat atatgttgat ctacataatt agaaattatc angnaagtag aattctaatt 480
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<210> 6150

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6150

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tatttgaaat gtgactgctt tgtaaaactc cagagtcaag gactcatagg caggaggatg 120
tcataaatta acaggaaagg atgagaaatc tccactccac tccctcctcc ctcccttgat 180

cactcattcc ctctcttcca ttcattaacc acccaccaca tgccatgccc taaggaagca 240
 gctatctaag aagtcacctgc ctgcaggggc tttacagacc aggaggaagg caacccatag 300
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 tccaaaaagt gaggccttgt tgggaaggga aaaaacagca aaggtcaagc ttggatgaac 420
 ccatccagaa ttttgcaatc agaaatacct agaaaagaat tatttttagaa gaacaggggg 480
 atgccagggc ttggggatga ggaatgatgt ttcagtgcct aaggncctg aaggcttggg 540
 cttcctgctc aaaaccagg gggncagggt tgcctt 576

<210> 6151

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6151

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 tggctcctgaa ttttaacatg ttttgctcta cattaattca agaaataaaa tgagaaacag 180
 ctttgaaaat gagattaact ctttgctgt aattatactt actctataat tcaaactatt 240
 tagctgaagt cagttaacga gtaaaaaccg cggatacagc tcaaactgct ctttaacttct 300
 ttaaagtgtt actgttctat caaaactcag acccaagctg cacagggtga acttgaggca 360
 ctaacaatct tcctaccaga cgtaatagtt ttatgtgttc ttaaagctgg gcgcatatac 420
 aaaatcactg tcatcacaca taaacatcag aaacttttct tggacaacta gaccaatagt 480
 ttctcttatt ataattatct ttaaatacag catgtgtaac agttcagcat ttaaaggac 540
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<210> 6152

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6152

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 tttaatggaa cattcttggc ataaccttaa tttaacgagt gcatttctct tctcaccatg 180
 ctcaatataa ccaaaattaa cttcccaact cttaagcct tcttttttat cacaatattt 240
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 gacagatttt tctcttctta taggatttga agaaaatata ttgaacaatc accaatttat 480
 ctggtaaaga acaatctact ttaagatagc ttaaaagtta tangtgccan gccacaagat 540
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<210> 6153

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6153

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 atttttttgt agagacaggg atttgctttg ttgcccgggc tggcttgaaa cccctggcct 180
 caagtgatcc tctgcctcg gcctcccaga atgccagcat tacaggcgcg agccaccata 240
 cccagcctta ttcttgagta attttcttg tcaattttat ttttctgttg tgagagtgat 300
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 ctttgacat gtatggtgtg ctgagtaagt caagtgccaa tccacctgga gttgccgggg 480
 gttttttttt ctttctttct ttcttnttt tttttgaaac ggantttgct cttggtgncc 540
 aacctgaang ccangggacn attinggttac tggaacctcc 580

<210> 6154

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6154

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ctgggccaca ctgagtgaat tttaatgcag gatggaagca cacagatggg tgatcaggtc   60
tctctttact gaaacacaga acatgtgcca aggtgagtcc aaggacacct ctgggaacag  120
gtgaagcccc tccccataca tacactccgg tggatgtgag cgagggtcct gttgccacat  180
ctgggggttag gggccttgac atgctgccct tcatgggaac cttctgggta cctctcagca  240
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aaacctncat tttaacctgca ctcacgtctg nggccggcct tgtnccggca gtctgggcnt  540
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<210> 6155

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6155

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cgcccaaagg gtgtccctct gcccatttc tgcaaaaact ctcaggcctt agcagtagcc  120
tgagctgccc ccagggtgtg gagctgctga atcttctgac tcatcatttc catgacggcc  180
tgtttcatgg cgtgcttctc ctgaagagct ggttggattt tctccatctg cttgggttaga  240
aaatctatct tcctcttgaa gaagtccttg gcacctcag ctgtcttctc tacatagtac  300

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ccagttccca catcgatgag cacgtgttcc acatcatgca gcttccaggg gcatacatct 360
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 tctgganggc ttagacaatn ctataactnc aatggaagga agacggaaag ttggtcttaa 540
 ggngaaaatg atgatgctgg acaccttttg gnetgcctaa tcc 583

<210> 6156

<211> 508

<212> DNA

<213> Homo sapiens

<400> 6156

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 ggactacagg ccacggcaac actcccagct aattttttgt atttttagta nanatgggat 180
 ttcacatgt tggccaggct ggtcttaaaa ctctgacct caggngaacc acctgcctcg 240
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 ngttccacgt ctggaanaac ttgggaaa 508

<210> 6157

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6157

actaaaataa acctgttcgg gggaacagct actagatgaa ttttaagggtt ttatgcacct 60

tatagaactt atagcaaaaa tagttctagt tgatttcatt ataaataacg ttttcaagaa 120
cctgtgcaaa actgtcaata atttcctaaa gcacaattga tcagaaaaat ccatgattgt 180
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tcatctgctg ggccnaaagg cttgacattg atgcccggct tnaatgacat ggggggctcc 480
attgagggag ttaacacggg acccaggggc ttganaatat atgggtgagg ttgcttcccc 540
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<210> 6158

<211> 527

<212> DNA

<213> Homo sapiens

<400> 6158

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gcaataatag agaactttta actttgtatg tcacagagaa tgnatatacc tttttaataa 180
aaagcctgaa taaaccaata actattaaag aaatcacaaa gctgattaaa aatctactat 240
taaaagngtc atcaggatta gattggttta cactttgncc tagctaactt ttaacaaaca 300
aataattcta atgctatitaa aattattcca gaccacagga aaaaaattga aaactcacat 360
attcatatit ttttaaagct agcacaactt caataacaaa acttgataaa gatagcatca 420
gaaggacaaa atacaatitit actttggaat gaaaatgcat aattctaaat taaatactgg 480
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<210> 6159

<211> 592

<212> DNA

<213> Homo sapiens

<400> 6159

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atgaaaacag atgatgtaag cattccaacc tctccttgac ttgccaatgt tagtcatgtg 180
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gaacttgna tataaaaaat gggaaattag gacttaggga tttactggta aatactcctg 540
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<210> 6160

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6160

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ataggtagcc aacaatctca gaattttgga tcagcccaga tggagatagc aatttgaaat 180
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tccattacag tgataacgta cagaattccc atgcgttatt acactttcct gagagtaaag 360
caattagaat aaccttaatc ctagcaacaa agTTTTTTTT gtaggtTTTT tTTTTTggt 420
TTTTTTTTgn cTTTTTgtt gcgtttaaaa catttgggct attccctgac gatctatcat 480
ggaaatttga tgctaacatt ggcactttga angcaaacta tttttaancc aatggatttg 540

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gttaaaaacc ttatccaacc ggncttaaan cccgcttcca aaa

583

<210> 6161

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6161

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ataatttctc cttggcctca gaggcacctt tactgcaggt gagggctctt tcaagcccag 180
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aagcattcca aacctgggtg actgancgcc ccagtagatg angaggagca ggaaggcttg 480
tgtggatgtt cacacaccgg cccaacttcc ccaagaagat aagcncatcat gggaaaatca 540
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<210> 6162

<211> 579

<212> DNA

<213> Homo sapiens

<400> 6162

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tacaactgca caccaccagg actggctaac tttttcgtat tttcagtaga gacagggttt 180
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 tcttgattaa atggtaaata ttccagaaga cacatatgca gtatacatgc tgacttgatt 420
 aatTTTTTgt aacacctcag ggtagagatc tatttcatga tcaacacaat aaatangaga 480
 caaatacctt tgnttgcaag aaacagnttn ccaagcataa tgggatacct aggttaccat 540
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<210> 6163

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6163

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 ttttattttc agctataaaa caattatgag agccaaagga gccaggatca ccttccaaaa 360
 catTTTgttt tgtacttctc taatttatga ggcattcttt cttctcaaag caggatatta 420
 cagtgcagat taaaactgga tattaaagtt aatgggtgaca aattattaag tagtttgaag 480
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<210> 6164

<211> 584

<212> DNA

<213> Homo sapiens

<400> 6164

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 atacatgcac cccaaactga tctgttattg aaatttcttt ttctggtctc acccattact 180
 ttaacatatc agaggaatta acataacagc ctagagaaca gaaataagag ataataggtg 240
 cttcagtacc acccaaatta tctactaaga ccacagtgtg ggcaacagaa tgcagattca 300
 tggtagtagt tccttgaatg aaagagttca gacagaatct tccacaaaca caaatttttg 360
 cggatatcaa atcttggcag agatggaatg gaatgatatg agagccatat ggaatcctca 420
 tagcgggtcc cgcgcttgcc ttcagggtgg agatgaacag gaangctcgg acccggcggc 480
 tgactcctgg gaagtctgct gacagaagnt taacacnggt tggccccctt ggcccgggtt 540
 ctaagcccaa gggggcnant ggccggtggn accctcccct tnaa 584

<210> 6165

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6165

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 gaatatgagg acaagctcta gtggtcatta aacccccctca gaaagtctaa gattcagaat 180
 gtctccatca tattagaaga aaaatgtact gtattaaaat tttaaattgca tttttacaag 240
 ttgtttttta attagtgttc tatttacatt gcagaacttc caccaactgc agtagtttaa 300
 ctttggcaca acattaagtt ccatttcttt tgggtattgg atcctgcttt ttgagtgtgt 360
 atgccccaaa acgttttcaa tgtcatcaaa gattgggcaa attcacagta aatcagacat 420
 cttgagtga agaattgatt ctccctcaac gttttangca gattcagnca tctggattta 480
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<210> 6166

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6166

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attgcctaatt gacctatata gaaccaccag tatagtgtta aatagaaatg gcaagaacag   60
acatatttgtt cttattactg atgggaggag gaaggtaccc aatctttcag cattaagtat  120
gattgttagc  tgtcggtttt tcataaatgc ttgtttacca agttgaggaa tatcccttct  180
attcctagtt  tgctgagtgt tttatcaca aacaaatgtt gaattttgtc aaatggtttt  240
tcttcataag  ttgagataat ccatgcgtgt tttttgtcct ttattagtag attatattac  300
attaatttcc  atatactgaa ccaagctttc attcctgaga taaattacac tttgtcatcg  360
tatatagtca  ttttaatatg ctgctagatt cagtttgcta atattttgtc aaagattttg  420
gctatattta  taacccggtta ttggtctgta agtttcttgg ggtatcttgg gttttgnaat  480
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<210> 6167

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6167

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gccccagccc  acatttcctt tgttgaatga gtagagaaga ctgagaagta tcactcacc  180
gtgatgtggt  ttgtcccttt tccagccagt gtgttggtta taaaagtcac ctttcagagc  240
tttggtccct  gtaatgcccg tctttcctgt gtccaggaat aacctttgct actaggcagt  300
cctctgaaag  atttgtagaa ggttaaagtg gaaagggact tggaagctca tagaatccat  360
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gcctcttctt ttagcatcaa ggaattagaa gtcctgagag atgaagaatg ttgtcttcca 420
actcaaacca ttctgaagc catttcctg gtactgcatt gnccacaccc ttncccatgn 480
tatectcacc cggtaagctg ntttaatgct ggacagnctg attggctttg gcagcaacat 540
ttgntttaca gattcctact taaggaagaa agg 573

<210> 6168

<211> 584

<212> DNA

<213> Homo sapiens

<400> 6168

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agggctgcc a gtcagctgct tttagtgcct gcctcagttc cgccactct gggcagggag 120
ggacctatcg atgtgcctat ctttctacac aggggctgtg aatgaagctg caggctcacg 180
tgtaagggga aggccaggca aggaccagg acagtctgct gcagaggaaa ggggcacctg 240
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tcctgagaca gccaatgcta actcggtgaa aaaggttaag accgactaac attcacaaaa 360
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ttccactcag caaatgtaaa gccttttttc cccttcctt ccacatctct tctgggatga 480
gccccatagg atcctggagc aggggatgtc ccagggccag tcagaacctt accggagtgt 540
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<210> 6169

<211> 569

<212> DNA

<213> Homo sapiens

<400> 6169

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cccaggctgg tcttgaaccc ccaggctnta gcaatcctcc tcccctggcc tcccaaagtt 120
 ctgggattta caggtgtgag ccacatcaaa atttaaaaag caaaaaagac cccatgattc 180
 tgttacactt cttattttaa cttgaatata nagtcctttt gtttgtttgt ttgtttgttt 240
 ganacanagt ctcgctntgt tgccgaggcc anagtgcact gacgcaatct cggntcactg 300
 cagcctccac cacctggggtt ctaatgattc tcgtgcctna gcctcccagag tagctgggat 360
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 gtcatgggtg cccaagctgg nttcnaactc ctgagcttan gcaatncggc caccttaagc 480
 ttccnaaagg gctaggatta caggcatgaa nccncatgcc aggccaaata agaccccttt 540
 taatttgaat taccatcccc ttaagcngg 569

<210> 6170

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6170

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 ataaatgtta aattaaaaaa ccttcaaaga acacatatca cacattcaat ttttaaaact 120
 ttatataaaa gctctattat aaatacaaag ctaaaactatc tgagtactaa caacacagtt 180
 catacaaaga aacttaacag tagtaaaata cagatatata agatgcttat ttttggtcct 240
 ttaggataaa agaactaagt tggttttttt tacatggctc caggcacaaa aatagaatat 300
 aagatggtta ctgcaacatt cttagtgttt atccttgtaa ttctttaaat gtcaccagtc 360
 ataatagcaa tgaactcctc ttggtttact gtggttaagaa agaaaatgaa atagtcagaa 420
 atataaacat tttatttttt cagaatccac gactaccatt ttacactaag tatttaaaaa 480
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<210> 6171

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6171

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caaattcata ggatgtcttt ttattatgct aataatttaa tcacattcca tgggggtccac   60
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aaagcaagga gctctatfff tgggaaaaca atgggtgctc actgcttaac tggattgtat  180
tttatttggc ttttcaacac ggcaatacaa acatattatg aaatgagtga aaagggcata  240
ataatffffat tctaggtttc tactaccttc atgattaaga cttactagc tactgctgct  300
tggccataat ccactacagt ccctaaacaa aaaaactatg aacaaagaca aaaataatct  360
gtaatttctc ctacaaaggt taaccctaat taacttacag cagaggtgaa caagctactg  420
cctgtgtgcc aacataaccc agcttgtfff tattagtaag gttttacata ttatctatga  480
ttggtttcac actacattgg caaagctgaa taactgcaac agaaatcaca cagcctgcaa  540
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<210> 6172

<211> 585

<212> DNA

<213> Homo sapiens

<400> 6172

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cataccctag tgggtgcctgg aactccagca agacagaact gttcattcac tcccctggaa   60
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cagcagtcta agaaccactg gcttgaaatt cttactgcca gcacagcagt ctgaagttga  180
cctgggatga tcgagcttgg tgtgggaagg ggcattcacc atttctgagg cttgagtaag  240
cagttttccc cgacagtgtc aaggaggctg ggaagttcag actgggcgga actcaacaca  300
gcgtggcaaa acagctgttg ccagactgcc tttctagatt cctcctcaca gggcagggcg  360
tctctgaaag aaaggcggca ggcccagtca ggggcttaga gataaaactc ccctctccct  420
gagacagatc acctcaggga aagggtggct gtgggcccag cttcagcgga tttaaacatt  480

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cctgcctgcc acttntgaaa aagtgcanca gatctgacaa ggaggattta ccgcacaact 540
tgactttgta aggacagntt gcttctnaag ngagtcctga ctcg 585

<210> 6173

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6173

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agggcaatct tcagaattca ggagttctga tattgagaga atataaagga taaaaaaaaa 120
ttctctcata tttaaataaa gaatcttata atgccaaaga ccaacaacaa ggcaacattt 180
accttgaaaa ttgcttagng tcctttatgt gtaattccag gagggaaaat ctgctgcctc 240
attcttatct ttccttctac tcacgaaaat gaagatacgg tctttccata tcaattcatc 300
tatagctctt tcaactcaata attaaagatt tgggaaatat aacctatgtt cttgggtcaa 360
caacttccca agggaagaag catcttcagt aactctgaac ttcacaggaa aagggtaaat 420
cttgaagatg aagtactggc aaatatatgt catatccttt tccattctt tgaatgaaca 480
tacatncatc natanagtcc ttggatgnat ccagctggaa agaanggtg aggtaggacg 540
ttnttccggg catngtactt gaatgatgga tttatc 576

<210> 6174

<211> 597

<212> DNA

<213> Homo sapiens

<400> 6174

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ggaaaatcct ccacctctaa cagagcgaag ttactggctt tctgcttgct ccaagaatcc 120
caaggcttga tgtttggaag gaattatctg ttcttcaact actcccagat actcaagaca 180

taagttacac acatctggag aagggttctg ccctgctgaa gctagatggg agctcaatgc 240
 atgggagaaa ggagcatcaa tctagaaaaa aatgatcaaa gaacagctga gtgacagtgt 300
 ggggccatcc caggcaagtg ggctcttggt gctctgggtg agccagaacc catacaagct 360
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 ttaccatcat cagccacagc ccttgggagc aaagccctta gacgccttct tcaagcccct 480
 gctgggtggg ttcattcatta tcttggcctn ttccaaatct gaatgnaagc ctttgacagg 540
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<210> 6175

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6175

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 catgtgcaaa agtcccctag aaagctgggc ctgcagctgt gtaaaaaagg ccccccatgg 120
 ggcagagccg tgcaaccatt ttaaaaaaag agacagtgag agagaaatca ggccccctgg 180
 gagcctggct tgggtggagt gcacatcgct caggccgggt catgtgccag gccactcctg 240
 ctggtttggg ggctgttttc ttctctgatt gtgctttcct ttccaagtcc ttaaaactct 300
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 gctcagcccc gccagaaact cagggtcttc tggcctcgca gccctcgcca gcccttctgt 480
 tcccacctnt ggccctgacc tggccccaat cgggccttat gtcacaattc caggganggg 540
 cactggnctt gacacaaaca aagggtttcn aaccctnggg gcg 583

<210> 6176

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6176

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 cccaacaaaa acagagcccc ccccccccc cactggaaca tctgccaatt aagagaaaagc 180
 caattttccc ttcccccaat gtttctgaaa ttttgagttc ccactgttca cttctcagtg 240
 gaactgggtcc cttgtggcta gggacattgg aattctctac catttttact gaacaaaaaa 300
 taattttttt tcctgtttca aaaaaggga tagtgacttt gttttctcca ggctccccctt 360
 cccccataac caatgtaaaa tacagcagcc tgtatcttaa taaccagcc ctacccccctc 420
 ccttaccag cattgtctac tggagaattt aaatacactt ctgttggaa ctgtcagctg 480
 tggatgggca gaagtccagg tgccaggcta gctcctntgc ctatgactgn gcaacnttg 540
 gaccttaact ttaccacca agatgagttt agatccaaag ggg 583

<210> 6177

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6177

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 gcattgccaa catgcccagg ttcatagtaa agcttttgaa ccgtgaagaa ctagaaaaaa 180
 ggggaagaacg agggaggcag aggaggagac atagagaaag aacctttggt attagtacaa 240
 atcttgttct ttgcagggtt gcattgcaaa gcaccacagt acaataagcc caccaactga 300
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 tcacactttg caagtgaagc atgaggctgg ggggattgct gaggagaggt ctgccaagtg 480
 ggggtgtttt ctngtctang ctgccatcgc tctttctaga tctctctcg tatgggtgtg 540
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<210> 6178

<211> 563

<212> DNA

<213> Homo sapiens

<400> 6178

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atccatttca agaagcagtt tcttggactg gaaggcaagg gcatctgctg tttgttcctc  120
gtggcccaat cccaggcttc atggtgatgg agtgggcaga gcaccctgcc ttcattgactc  180
ttagtagaca gggaccaaga ggaaactctg ggtgggtccga ggtgggtttg agaaatggct  240
ggcatttact ggccaccaa atcactacag attctgtaca agcaaaagac aaggcaccag  300
aatgtaagtg tctctcctgg gcccaaaatc cttctcctg ggtaccgtcg tttctggctc  360
caggctcagc catagtata gacaaagtca tagctgctgg gctccttggg gatggggggg  420
tgggcttcgg gaatctggat gttctccagg tccaggaacc cgcagcttca tctncatgct  480
taacaagggt gccangncac ttttgggcaa ctactggac atgtccttcc caaaaaggca  540
cttgnggccg naatccnaat ccn                                             563
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<210> 6179

<211> 589

<212> DNA

<213> Homo sapiens

<400> 6179

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gctttctcag aagctattat ttcttttggg tgattggcag gtatagggca atagccagtg  120
gggtgtcagt aatatgccct gtccctgacc tcaaaggtaa agggatagaa aagagagggc  180
gttgacaaac tcattttccc acttcccact catggcttat attatctctg agcatctcgg  240
tggctattcc tcatttactt aagatgtttt agtcattctg gatgtgcaaa tgcaaggcaa  300
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gcattctccc actggccccc taacgggttaa ctatcctggc ttaaaatttt cctttgctca 360
 cttccattct atgagtatat cgatggagca gctggacatt agagttcttt ctctttgacc 420
 aaaggagcca aaatgcggtg acttgacttc aaccccaaca gcccctgtaa gtagccctgg 480
 ccaaacagaa aggctaactg aatgaagaaa aaaggaagac aattcatctc agtggccctt 540
 tttgacagct tncaangggg gtttgcctaa ggaataacaa ttttntaa 589

<210> 6180

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6180

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 tgtgtagaga gggaaagagc tgggtgcctgc tctggaggca acgtccaggt ccgggaaagg 180
 cactcgtggt ctgtgatctg tctcagtgat gggaggcttc cactcgtccc acaggcagcc 240
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 tgctgcagga acaatgtgag gctttatgtg gatcaactgc gcccaattgg ctgttgactt 480
 aatgctcctg gtgggctgct tatgggtaaa aatgggtggt cctgggttgg gaagggaan 540
 gggttacctg naaccnccgg aacnnngctt ctacct 576

<210> 6181

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6181

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 gattttatag gtcacatgaa cggactcact gttaagcaga gcctacttta ggtcttacct 180
 aatcaaagt gtgaccagt tagccgatta atacacactc aattagatta gcaaggagta 240
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 tagaggcaga gggcatgcag catggtcagt acagggtcct ggggagacgc tgtaggagag 360
 aaggtgcac ccctcagcat gctcctgcag tgcccagcat cctaaagtac tcggtggcca 420
 gcagcctgct ccagagactc tctcaaagg ttctgttggt tgaagtctcc catgagatcc 480
 tncccagcac atgggagtag aaataccatg caagttcgtc tggtagacac ccagcaaatt 540
 ttnggcactt catganaccg tgttcctttt caaaaggcag a 581

<210> 6182

<211> 586

<212> DNA

<213> Homo sapiens

<400> 6182

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 tcatcgcaat aatttcact gtatctcctg agtcatactc acgatcattt ctcataatat 180
 catcatcact atcatggcaa gagacacgat ttttgatacc taaacctatt aaagaatgca 240
 gtttgtgaac gcctgatttg aaatcatccc ttacaacttc aaaaggatca ctttcagatt 300
 catttattga gggttgtgta gttctctgta agttttcctc tttcgcaatc atcattctca 360
 attcatcttc agaatcagta tcatcatcag aaatgctgtt tctcttcttg gcagtttcca 420
 agccagaagt cttaaaaggn agatttttta gtttctgagt atcagaaaca ggtcnggaga 480
 tgatttagaa gngtaatgg aatcncaagg tcttttttgg gcacccgggt ctggggtnaa 540
 ggggggcccct ctaataccct ccngggcctg gncccatggc caaaac 586

<210> 6183

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6183

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gagatgcata ttttccttta ttgctgaatt aatgaggcac caataatctc aaaaacacaa   60
gtcagacttt attctgaaaa taccataaag agacaaaaag agttagtcaa gtattcttgc  120
ctgctggaga cacagaatth caatagcacc ttttttaaaa aaagacatga acatttataa  180
aattgcagaa catatcttac atattcacat ataaaatcat gaaccaataa taatccggat  240
ggaaaaactg atctgtttca tcaacatcaa taaacatttt gttgagagtt tgttccacat  300
attatacttc cctcagtata ttagaagtac ttcagctttc tatttgaagt ggttttccta  360
aaaataacct tttcccctgc tcaggataac cagctattat tatagtatac atattataat  420
aacaaggnat atgtctttga cctcatatat gactnccag ttgctcagga atagattact  480
ttcatacaca aatgggaaaa gatgtcaata ttgatgatag tatcgaaaaa gtggagctac  540
ttaactgng taaattaacg atgnca                                         566

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<210> 6184

<211> 571

<212> DNA

<213> Homo sapiens

<400> 6184

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ccagctccgc ctcccaggtt catgccattc tctgcctca gcctcctgag tagctgggac  120
tacaggcgcc cgccaccatg cccagctaatt tttttagtagt ttttagtagag acagggtttc  180
accgtgttag ccaggatggt ctcaatctcg acctcatgat ctgcccgcct cggcctccca  240
aagtactggg attataaggt gtgagccacc acgcctggcc aataaaagca ttttaaaata  300
ccaaatattt taaaatacca aataatcaaa aagtagttgt caacactggc caaactgcc  360
aagatgttaa cattagagga ggcttgaaga agaaagaagg agggaggaat aaaaaccaag  420

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○

gagggagaag agctacatta aaaagagaga gagatgtgaa atgaatccac aacgtcatca 480
tctaagcaac aaggnacctc ttcctcctgg attctggcac ctatatcata tttcnttaaa 540
atggnatgaa tcaanttttn caaatggcan g 571

<210> 6185

<211> 568

<212> DNA

<213> Homo sapiens

○

<400> 6185

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cctccctcct tggcctccca aagtgtctggg attataggca tgagccactg tgcccagccc 120
tcataaagtt ataatatggt agcctagggc tggctactcaa tatgtctgtgc ctgcagtat 180
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tttgattaag agatgactcc aaaaccttta acttctgaag ggatcatcta cagcattggg 480
tttaaaacta gaaaataaga ccaacaaaaa tatccaaata cnggttggtg aaaaactatg 540
ccatctatca attngaattc aaaaatcc 568

○

<210> 6186

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6186

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gaattcagtc aaaaagaata agcagtgtaa aggcaataaa gtaataaaat cagttagtgc 180
 ttaattagat atggcagggg aaaaggggtg ggagggggag actgagccta tctcataatt 240
 gtttcccagc tataatttgag gactgaagtt acttttagcaa gtatgttttg taacaagtag 300
 aaatacaata aagatgtaaa ttgctttat ttaaaggtta aagttatttg cttagtggta 360
 cataaaaggc ttcagaaaaat tcaagtttaa caaaaaatgg aagtgtaatc aaagaaagtg 420
 cacttaaagc tgtttgccag caattaaaaa gtagcttcta tacagcttct attagatgac 480
 ttttcaatca caaaaagagc atagtcataa aaaccattct tttcaaaagt gccgttttaa 540
 ttttaaaata aaccnaaata cccccaatca tgn 574

<210> 6187

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6187

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 gacagagggc aggacaactt ttcaacaggg aggtcccact ttaccctaa tcttggaat 180
 gccattccca tgagaggctt tcctaagatt ggtttcagaa gtgtcacagt tggggtcaac 240
 aggcagggtc atgttctgcc ccctctctag tggcattctc tctggggaga aagatcctag 300
 gctttctcaa ccatcagtgg atcactcaaa acaaaaacaa aaagaagcag caacttaca 360
 ttctaccac atgtatcgcg ttcattcttc tattcttagg tcctaggagg gtcattatat 420
 aaagaaatga atgactagat aaatgactgg aaataatagg atgaaaaaca tcctgtcctt 480
 caggagtcc atttctagcc nggagactga gaaggcattg acagtgaan tgcaagtgc 540
 gtgaangaac tntangctca ngggcccagg 570

<210> 6188

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6188

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gcaatttcat agtttttatt cagtggactt aaagccaaga aaccatccca ataattattt   60
acaatttaaat aactgaatga ttatcagatc gtgttatact gcaaaactgt tcttacacca  120
tgaatgctga tgctgtgaac tttggatgtt aaactggtaa aagctggagg cttcaaatgg  180
catatgcaaa tgtaacccaa gcctgaggac tatgaagaaa gaggagtttc taccactcgg  240
catttatagt ttttatatgc attgcagaag catggggaat taagtgatct ctgaaaaaaaa  300
tgctttaaaa aactgagtat acatatagcc tataaggtaa aaatccaagt tacaagtgta  360
ttaaacactg gcaactatgt tatcagaggg aatactgaat tatatatata cataaactgt  420
cattaaactg tgattacatg atacttccta ccacagctta ttagactgtc aacagaagat  480
attcctggng gctctctaag ctccaggttt aaaagaatta agatcttccc cttggctcaa  540
agctaatacag tatcattcta tacctaaatn                                     570

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<210> 6189

<211> 342

<212> DNA

<213> Homo sapiens

<400> 6189

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gctatTTTTg ttttctctcc tctgtgttgg tcgcctgtct cgctccctct catgctctct   60
ttctctcttc tattttgtct ctactattc gtgttttgtg tttgtttcta ggtttggctc  120
aattggtaag ggtgggattg aatttgctga gccccctagt gtaacagtct tctgcctttg  180
tgggtaaaga gtggagaggg gggaggggga cgacagacag acatcccttc ttcccacccc  240
cctccccacc tgccccccgg caaccgaggg tgcccatttg gtttggtttc tattgnacag  300
acatctnang atggctcaca taggcggnaa ggangaagn cn                               342

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<210> 6190

<211> 569

<212> DNA

<213> Homo sapiens

<400> 6190

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caaaagcact ctatatatgg agtggcacca gatttaacct atttaaata aaagtcatac   60
aaacacaaaa tatatttctg tgtcatgcca gctcattata taataaacat gttatgacag  120
ctaattctac tagaattact gtgaatactt acagtacact gaattttatt ctttcacatc  180
cattttagtt ttaaagagag gttcacgagt taaatgacaa tggcatggct atcttgaatg  240
gggtgcaaac atcattgggg aatgtggatc caattaatcc gaaggtccgg tgtgaccctg  300
attagtttta tagacaagag aagggtttaa gatagggtga aatgagctat cagtggtttc  360
aatgtctcat gaaagaaaga aatgcattaa aaaaaaaaaa gtttgtcaaa catccgtgtt  420
atgcaattga gtattttctt tgtaacgtgc aagaaaaaat atgtatacat ttcataagta  480
tctttagaag tattttgnct taataggtac ttacagatta tncaaggcan aactgnntta  540
atgcagnttn ctacaaaggn cttaaaatg                                     569

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<210> 6191

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6191

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aagccccga gacgggagtc ttgctctgtc acccaggctg gaggtaaaag tacagtgcac   60
tttgctaata cacatcctgc acatttctgg agaattataa taaacttata tgcaagtgaac  120
gcaggcctcc tcttctgtaa tctctcaaaa catctggaat atattgcata tattatgaaa  180
gggacatctt tttcacagat gccccaccgt tacaacgtgt acctttgctt agtttaaaaa  240
ttgactttaa tactttatgc aaatagtgcc tgtcccaaat tctagcatgc acatggatct  300
accaacaaaa aaactaagtt ttcagtgtgt gaacataaac ttcaaattaa acctctgatg  360
ctttagccca tgtatcaatt accaacagat tttcttcata aatgtctgca gaccacattc  420
atgatttcta taagacagaa atagagcaga taaactatac tgnatatgct gaggtaacaa  480

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tttgtgggaa cataatgctg caaatgaaag ctacaaacac tctgnaaata gcttagaaaa 540
actagtaatt gaaatcncca agtnccngct 570

<210> 6192

<211> 568

<212> DNA

<213> Homo sapiens

<400> 6192

gagtcagagt tttgctcttg ctgcccaggc ttgagtgagc tggcgcaatc ttggctcact 60
gcaacctccg cctcctgggt tcaagtgagt ctctgcctc agtctcctga gtagctcact 120
tttcttcaca tccacagagt acataccatt tcctgctgtc aggcaaactc tagaaatttc 180
tacaaatccc agaaagaatg ggtaagcagc ccctgggtcc cticctagcc ccttaccttg 240
atgacaagat ccacatagcc gtgatcctca tcaactggta caggagtgtg tggcctgatg 300
accaggctgc catcaattcg ggtggagagg tagatatgtt tgcctgggga ccgtgcagag 360
agctacataa gggttgtctg tgatgtgctg catccctcaa aatactcaaa gagatttgag 420
agaacaagat gtcttgcttc tgctgtggtc ccaaggagct acaaggcagg gaagattgcc 480
ccattgagcc ctgagttgga tctcttataa gcgccccagt tgaggaaaca cttatttccg 540
cgnttntctg cantactggc agaacctt 568

<210> 6193

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6193

cggcaactat aggctttatt ttcttgccaa ttctttacag aactgtaagg cagttgcttc 60
tttcttccgt ttagatagct ctctgttat tgctacaaac tgggattaat ttttaagctt 120
caaagttaca ttattgccag acgcagtggc tcatgcctgt aatcccctgc actttgggag 180

gctgaggcag gtggatcacc tgaaggtcag gagttcgaga ccagcctggc caacttggtg 240
 aaacactgtc tctactaaaa atataaaaaa ttagccgagc atggtggcag gcacctgtaa 300
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 aaaaaaaaaa aaaaaggga angaangtta cattattatt gggaataaat atctgcattt 480
 ccttaagcct ttggcaggct atgttaccct ctatntttgg agaaggacct tgaaaagtga 540
 nggcnnngncc ttcaccttat acctgcnttt ttt 573

<210> 6194

<211> 502

<212> DNA

<213> Homo sapiens

<400> 6194

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 ttcaatgaca ggctgtcata ttgcaccata caaaaacaaa tttcatcaaa gctttcagtc 120
 ttacagtata tacagcaatg cattcatatt gtaaaagggt atttttttgt gtacagatga 180
 agcaaaacaa tattttttact ggctgaaaca aaaagtggaa caaagtctcc aacaatagag 240
 gtcagtggca cctactcctg tgtggctttt gtctcttttac tgagcaagag gcttgtttta 300
 ggttttcttt gncctctgtt ctagttcatg ctgggtgttta ataagacgtt ctatttctgt 360
 tccaagtgtt tgnagatttt ccttcaaagt aatatttttt agtaacgtat cctccaaaac 420
 agcctgtaat tttcggttga tttccaaaga gagctccaat gttaatccat tggcagctgg 480
 atgggatgta tataannnnn nn 502

<210> 6195

<211> 569

<212> DNA

<213> Homo sapiens

<400> 6195

aaaaggcagg caggaaccaa catttattaa aactttgctg tgtatatatt atgctggaca 60
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 acagacaaat tgggtaaaat caaaatctga cattacagga attactcaag tttcaatgcg 180
 tcaactgtagc taagccagtg aactcctttg ttctgctgag aaagagcaag aagaatgaat 240
 cttcacagga ctactagaaa cttcttccca gcaaggatg aggaagccct aagtcaatgg 300
 tgtaatccta aatcagggtt tgaaaacca cctaacaggc agagtgaat taacaggcaa 360
 agtgaaatca ggcttccctg ggaaagtctc aataggaaac aacctgtaga tgagtcact 420
 ttgaggtcca ggtgtttctt aactctctcc aagtccttcc caccttcaga atccagcaga 480
 aacncnaaag agaacttggc cacttcttct tggctctctt cttatccttg gctttacctt 540
 tggctttgga aacctgntat nacnttggg 569

<210> 6196

<211> 577

<212> DNA

<213> Homo sapiens

<400> 6196

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 ttctttaatg tctacagatg atcagggtgat ttaatccatt tcagtattcc aactaccacc 120
 tggaagatgc taataacttg aaaaaattgt cttcagttca tatctgtctt cagaaaccca 180
 aatatatgtg tctcatacat tcctaacaac atagttatat cagatcaaca tatgaataac 240
 tgaatcattg tctgccaaacc taaagtcttt ggtgtatata ctgttttaaa tgctgtgaaa 300
 tattataaat atagtgactg attctactgc taagtatcat atacttaaat ccctctgatg 360
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 gccataaaat atgcttggag gttaaatttg ggaaagtaaa aatgccaggg tattaagtat 480
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 gnccagagtt ngcacttcta tacctagncc ttggaag 577

<210> 6197

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6197

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ctcccgagta gctgggacta caggcgccca ccaccgcgcc cggctaattt ttigtatttt 180
tagtagagat ggggtttcac cgtgttagcc aggatggctc cgacttcctg acctcgtgat 240
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acagtacata atgttaatag tacctgtggc gttgtcacia gtggaaacca gatatttttg 360
ttgcagatat cttgaaataa tgtcaatgct tataatcact ttgatattat agttgttatt 420
acgcctgcac cagatcttat ttattggata aataaataag cccacatact tggcattttt 480
atatttgata actattatgn caatataatg gattncnttg naatcctata aacccatata 540
tagccttttt taagaactcc tccaattttc naaa 574

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<210> 6198

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6198

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gagaatgagt cttgctctgt cgcccacgct ggagtgcagt ggcacaatct cggctcgtctg 60
caacctccgc ctctgaatt caagcaatcc tctgcctca gcctccctgg tagctgggac 120
tacagggtgca caccaccatg cctgcctaatt ttctgtactt gtagtagaga tggggtttca 180
ccatgttggc caggctggtc tcaagctcct gacctcaggt gatccacca cctcagcctc 240
ccaaagtgct gggattacag gtatgagcca ccacgccag ctgataggag agctttgatg 300
gaaaccccat atgtgttgct agagtgtgag ctccatgagg acaggacgtg gccaccagcc 360

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cccatggcac cccccgcatg gtgctgggtg ggggaaggca cttggcaagt gtgtgcagat 420
 tgcattgacaa ggtgcaccca gccttgctcc aagaaatcct gagcacacaa ctgcagggtgc 480
 acaaaagatg cagacagntt catgtgtgca cacagacagn tactnctttt tgcagcctac 540
 ttccccagga tgancacccc ctttggaan anaa 574

<210> 6199

<211> 542

<212> DNA

<213> Homo sapiens

<400> 6199

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 gctccgagtt cgggcagcgc aattcaccac tctcccaaag ccggaccaca gctgggtgag 120
 ggggtgggaca gagagtagga gcagtcccag catgcagtgc agcagcccaa agcctcgggc 180
 gaggcattcgc ccttcatccc ccttcagggc acagcgagat gcgggccaga gctcttttgc 240
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 gggtagcata agcagcaatg agggcccagg aagacctcag tctcctgggg gcccatccta 360
 aaagatggca agggcagcaa agtatttcca tctgtctcct acaatttaga aaccttcttt 420
 tttagtgtca aaatatagcg ttgaggggag ctggacgcta gggctctacc ctaacgcaaa 480
 gcaaaaagcc gaacngnacc ggaaccagcg aacngaacan gggccagcng nacacacang 540
 gc 542

<210> 6200

<211> 567

<212> DNA

<213> Homo sapiens

<400> 6200

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 atgttggtgc aaaggacatg atttggttct ttttttacgt ctgcggagta cttcgatggt 180
 gtatatgtcc cacatcttct ttatccaatt cactgttgat gggcacctag gttgagtcca 240
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 acattccctc caacagtgtg tacatgttct ttttctctgc agctttgcca gcatctggtg 480
 gttttcgact ttttaataat agttggctca ttttctaagt gaatggttgg tctttactgn 540
 tgagtattgg gagatatntn catctan 567

<210> 6201

<211> 571

<212> DNA

<213> Homo sapiens

<400> 6201

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 cccacagggt ctctgcagga ccacaggagc caagactcag gcataagagc atcacccttt 180
 cagcagccaa ggcgggtggc accttccct ccatggtcac tggaggctgt ggggccatag 240
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 ttgagatctt ccaggatacc cacaaaaaaa gggggtgaac ctttaacaat gccccagagg 360
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 gaggctagtg tgacctcaaa actcanagcc cccgtgagac acagggccag ccagtcceat 480
 gccttgcaaa agggaacgtt ccttccaagt gtggattttg gggctnacct ttgnntttcc 540
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<210> 6202

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6202

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ctatagaaag tttcatctag ctgtaagcaa agtcttttca acaacaacaa aacaaaaccc 60
tccaggaaaa actatatggc tgtgtgagac aaataagcaa ccatttgata gtgatttttg 120
cctaaatttt aaaataaaaa tgtccacact cttttgttaa aacattaagc ctctgtcaaa 180
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gtgtaactta cttggaaaaa atctttaatg tcaataaagc ccaaattatg gactgcagca 480
atttaatcat cactggcatt tttcttactt nccaaataaa gccttgatta accattcatc 540
cctatatact catcccttac ttcagaaaat ggn 573
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<210> 6203

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6203

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gtaacctcca cctcccaggc taaagtgatt ctctgcctc agcctcctga gtagctggga 120
ttacaggtgt gtgccaccac acccggctaa ttttgatatt ttagtagaga tgaggtttca 180
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aaagtgttgg gatttatagg catgagccac ttcaccggc cccatccttt tatttcaact 300
tgaaaagaac taaacccaaa accagcataa aaacggcaat aataaaaatc agagcagaga 360
taaacaata caaccaacaa aactaagagt tggttctttg aaaagatcaa ccaaactgac 420
aatccttag ctagattaag aaaaaaaaag aacattcaat aactacaatc aggaaatgaa 480
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aganggacat tactaccaat acgacngaga ttaaaaggat tttagagaat ntatgaagaa 540
atggtgcctc caanttaata cctaaaagaa 570

<210> 6204

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6204

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cactgcaacc tccgactcct gggttcaagc gattctcctg cctcaatata ctatgagtag 120
ctggaattac aggtgtatgc cccacgccc ggctaatttt tgtatttttt ttttttttaa 180
gtagagacag ggtttcacca cgttggccca ggctgggtct taactcctga cctcaggtga 240
tctgctgacc ttggcctccc aaagtcctgg gattacaggt atgagctacc gcacccagtc 300
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aaatttaaaa ggtttatata accacattct aacagtatac ataaacacta caaaaaagga 480
caaagtattt tgggggaacc agatccttta aacatctgga ttctggtaat ataaatctga 540
ntaagcagct gatttttagat tacaattcaa ttgaaatttt tgncgaa 587

<210> 6205

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6205

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ttagaaagtt agtccttttt ttaaataagg aaaggaatgt gagctggtat tgataacgcc 120
tggtattgtg gcgtgtctgg gcatttaaca aaggcaaaaa ggaaaagagg agaagaagggt 180

aaaaaggtgg ggggtactat caattaaaga ataaaagatt gatcgggtta tttgaagaga 240
 aacctcatca tatccacac caaccgtct ccccttcctg gcagttaaaa gcctgggtgg 300
 tgaggcaagc ctgtctggat tcaaacggca gtgacgtctt gggcacgttc tgctctctga 360
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 tagtttgaat ccaggcattg ctatttactt gctgngtgac ctggggcang tggcttcac 480
 tctctgggcc tcaattctc atctgtaaga cnggctatta ccacacctc ctcttgatta 540
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<210> 6206

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6206

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 ctactggtgt gcgccaccac gccctgctaa tttttgtatt tttagtagag acggggtttt 180
 gccatgctgg ccaggctggt ctcaaactcc tgacctcagg tgatccactc acctcagcct 240
 cccaaagtgc tgggattaca ggcatgagcc accatgcctg gccatacaca tcactttgaa 300
 acctgttttc ctttccaatc taaaaatgag ttcggttcta tttcctgagt cttcctctga 360
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 tnccggccac taaggggaga acacttacca ccagtcagg ccaggacccc cttaacttca 480
 caccagtcc ccaaaaagcg tgtccagaac atgaggacna aattcatnac cnggaaccgg 540
 tcaagttctg ggccacaaaa tcctccaana cttggccttg aggacgcccc c 591

<210> 6207

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6207

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tgtgcaagtc agtgggtagc ttgtggattc tcactctgga acgatcccat gtctctgaac 180
cttcaccaca aggagatttt cttatagtga ttctcaaagt cttggcaggc attcaaactg 240
gtcccttcac ttagacattc ttttccttct ctcctctgaa tccagtcagc acacaccttc 300
tccagggatt ttacgctgcg gatcattaga gggattcgaa tttggtgaat ggtcacctcc 360
agcttcacag gtgttttctg gtatctttta aagccttggg gcagtgcggc ttctggctga 420
cttgttcgga acagcgatga gtgaggagca ggaatggcag actgcaactc tgcaccactt 480
atgactgcat ctttctcaaa gagctgnatt gcttcntttt ggttggtggt ttttttgaga 540
cagaaattca ctcttggtgn ccagcttggg ntgcaatggc n 581

<210> 6208

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6208

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caaatggggt taaattaatc agcacaagct atcatatgta tgtctgccct gcagtatata 180
tgaattttta tcctggttat gaagaaaaaa atggtgcttt attatttggc actataggat 240
gtctctgaac attcagaaga tacctttttc cactttttat ttttgatac tttttagatg 300
agtgaataatg taaatatatc ctaaagatgc tatttggcag atttttttca aataatagta 360
gtcctaaaagt acgtgtatga tacttgact tcataattgg cttactaaa atataaaata 420
cacaagtgat cttactatga ttgaaaaaa aggtagtga ctcagaagt ttttaagctgt 480
gagtaggaat ttttaaattc attttatggt aagttggtat agaagtgagc cagaatggat 540
cggtgcatc tcttcnann ggtagccctt atccttttcc gggnaac 587

<210> 6209

<211> 582

<212> DNA

<213> Homo sapiens

<400> 6209

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tacaaatgcc cgccactgcg ccagctact ttttgtatit ttagtagaga cagggtttca 180
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aagtgtggg attagaagtg tgagccactg cgcccggcgg agaaagagtc ttttttctaa 300
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ggtatactgt gtagctacaa ctgtgaaata actaaaattc agtatcagag tcttggatit 420
acaatactgn attttttcac agatctcttc atccgcttaa ttttcttccc taagatttgg 480
tgacttgctt taaaatatac cggaatatc tacaancntt tnctaacagt aaaccagccc 540
caaaagcttt ttacaaggcc naactggatt ttccttccaa cc 582
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<210> 6210

<211> 571

<212> DNA

<213> Homo sapiens

<400> 6210

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agccttgac tcanaaagac cccgggggtc ttgtagtcc acgtgcttca tgtttcngg 180
tatctgtcan agccttaaaa caggcccacc cactactgng aaatttcaag gaaataactg 240
attcagttaa ataacagtcc caaggtagac ctggtctcac aggtgaccac ccgnttaaat 300
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ccagagcctt cttttctgtc caaagccact gaaatttgat ctcttccttc acacattccc 360
 aggtcccca a tatgccaccc accttctgac aggtggctac aggtctacac taatggaagc 420
 tctgctaaaa acatntccac ccaacccttc tgccaacgag gtcaagctgg caaggcatnt 480
 gntaagcccc ttaaactggc canccgcaag gtattgcnc canticcggg acccaaacaa 540
 tacttcngg actttggacc ttcttctttn a 571

<210> 6211

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6211

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 cccaatagtt atttgttctg atcctagttt ctaggaccc gatttctagt tttgtgaaga 180
 atgtcgttgg tagtttggtg ggaataacat tgaatctgta aattgctttg gcagtatggc 240
 cattgtaatg atactgattc ttcctttcca tgagcatgga atagttttcc atttgtttgt 300
 gtcacctctg atttctttga acagtgtttt gcaattctca ttgtaaagat ctttcacctc 360
 cctggtttagc tgtattgcta ggtattttat tcttttgtgg caattgtgaa tgggattgtg 420
 ttcttggttt gactctcagc ttgactgtgt tggtagatag gaatgctaga agatttttta 480
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<210> 6212

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6212

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 tctgggctcc aggttaaaaa ttcctatggt aagggaag ctagtcactt tataaagggt 180
 aagggtgtaa aagtatatta agtttccctt gcacatgatg catcatgcag gaatttaaca 240
 acaacaacaa aaaaaaaaaac ctgaagcttt taaagaattt ctattcttc tgcattttg 300
 atttcaattt gcttgctatg tgaagtagtg gcttctttta tgtgtgtat aatttcttct 360
 gtcctttagt gtaaaattaa ttatgactat gattttaaag cttcagggtt tttaaaaaac 420
 catgtttaaa taaaatatta ggtaagcaaa aggtgaagct tacaaggaag gtgtaggaat 480
 tacaagtgga ggcaaaagat catgttttagc cattctatgc caaaatttag aanataaggc 540
 tnattggccc aaaagccntt tttggttacc gggggcctgt a 581

<210> 6213

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6213

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 attactaaaa attcttttagt gcgggtccac catttgcagt tttgaattat gtgtctgaat 180
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 tccacacagg gacagccgga gaaatcagag atgttcagga gcaaagtagg cgcacagggc 300
 tattttggtg aagtttcaat ctaccacgtg gaaggaatat tagacacatt cgctacggct 360
 ccaagagcat gagtaagaca aacacagaca ggccgcaggc aggcagatgt gtgagtgggc 420
 ccgcagaaga atgtccagca ccagtgccat gccacaatgg ggtgcacngg ttaaagacac 480
 agggacgctn tgatggctta atggcaancc tccaaccagc agcttcaagc anttntacgt 540
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<210> 6214

<211> 567

<212> DNA

<213> Homo sapiens

<400> 6214

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cagcacagag atgcaggag ggcaatgggc tgggccgtgt atgtcataca attattttgg  180
aggacaatga tgggtaggat tgtgctttac ccaccatgtt ttttagtaac ataacttaga  240
atactacttg aataagcagt acagacaaca ggagtagcat caaatatgtt agctaggttg  300
taacaccagg cagttcatgt catgtggcct ctccttcaaa agtgaatcac tgtggaccaa  360
gcaccagaaa catcgtccca aagattcatc ttgaagtcag aaaggagaag agctaagacc  420
tgcactctct ggagtagcag tgtgcagctt tcaaagtttg gaagatttta agtcaactaa  480
atgggatggt attatctaaa accatttaat ctttacaatg gggttcanaa actggatgaa  540
nggtttcana acnntcctgn ctntttg                                     567
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<210> 6215

<211> 509

<212> DNA

<213> Homo sapiens

<400> 6215

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cttttttgag atagggcttc gctgtcaccc agactggagt gcagcggcgc gatcacggct   60
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aggcacagga caccacgcct agctaatttt tttgtatatt tttgtagaga tgatggcttc  180
gccctgttgt ccaggccggt ctcaaactcc tgggctcaag taatcttccc tcctcagcct  240
cccatagtgc tggttttaca tgtgtaagcc attgcacctg gcctaaattg gctgnntcat  300
ctcctgggtg gagaggttgg aaagctggga atacatttcc caggccccct gcagctaggc  360
ttnggggtgt gaattgattc tgccagttag ggggtgctcac gtgagacttg ggaaagtgga  420
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cnaangggaa ccactttttg cnaaaaggt 509

<210> 6216

<211> 585

<212> DNA

<213> Homo sapiens

<400> 6216

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cgggtgataaa tccatatacat cgagctttac ttctgttgct tccactttct ctgcttttat 180
atctactaaa agatcatgta ctccacatg tacaccactt cctgggtctat ctgaatttcc 240
aagaatatca tctgacactt ttgttgacat gagtaagtct cgagtatctg tgctgacagg 300
gtaatcggtc tcaactttctg ggctctggct ttgtgaaaga tcttctatct ctcgaatttc 360
cattccacct tttgctcctg ttgtctgtga tgaaagacca gagatgggtc tcacattccc 420
tttctttccc tttttaatgn ttctctctc tggctttgat attcctcata cattttggct 480
agggattccc tatgagctta taagngacct tgggaatggg ctattgaaag ggatcccccc 540
aaattttcaa gcctnccatt caaaattaat ggggtggatca aaana 585

<210> 6217

<211> 525

<212> DNA

<213> Homo sapiens

<400> 6217

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caagtgattg ntcaacttcc acctcctggg ttcaagcaat tctcctgaga ggcggaggtt 120
gcagtgagct gagatcatgc catcgcactc cagcctgggc aacagagtga ggctctgtct 180

taaaaaaaaa aaaaaaaaaa aaaaaaatca caatagcaaa gacttggaac caacccaaat 240
 gcccatcaat gatagacngg ataaagaaaa tggggcacat atacnccata gaatactatg 300
 cagccataaa aaaggatgag ttcatgncct ttgcaggac atggataaag ctggaaacca 360
 tcattctcag caaactaaca caagaacaaa aaaccaaaca ccatatattc tcactcataa 420
 gtggacagtt gaacaatgag aacccatgga cacangggag gggaanatta cacactgggg 480
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<210> 6218

<211> 582

<212> DNA

<213> Homo sapiens

<400> 6218

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 ccctggagct agggatgttc ttccaaagga aaatgaatca cagctgcaat ctcacaaaaat 180
 gccttgatcc cacacagctg cctctctctc cctcctgggg accaagaagg aaacaagggc 240
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 ctcttctcc tctccatctt taaccctgg attcaggaga cttgtttaac caggtcacat 360
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 ttaggcaatc cagtggatc actctgtgca cagcctcctt cccatatcat gttttggaaa 480
 cacccttttg gngcattcga actctgaatg aggagcacct tacaccctg ntgntggaaa 540
 ancngactta aatggataaa ggcactggan cttacattn tg 582

<210> 6219

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6219

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 actgtgagaa ataaattcct ataatttata aattaccag tctcaggtat tttgttacag 180
 caccacaaac agacttagac actgtatgat tccattactg gaactctaga aaagcaattc 240
 taatctttct aaaaagatag gaaagagtca ttgtttggag ccagcaaagg ggaaaggatt 300
 gattgggatg ggacacatag gaaattgccg gtgtgataga aatgttttgt ctctatctat 360
 gaacaggcat tcacagctca gtgacttccc tttattctgt tgggaaagag ctgcttgaaa 420
 ggaggaggga ttctctgctc ctagatgctt atgtcttatg taggcagggt gtaaaacatg 480
 ggangcctgc tccagcccag catttctgt gacagatcag ccgaatatgc ctaatctggc 540
 aattaccagg tcaagttgct ggtatcctta ctaattctct t 581

<210> 6220

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6220

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 ttatgcacct ttttgnaaat tcatttagca cttctttcct gactttaaat gtatngana 180
 ctttaacttc tcatttgaat cagttgnaac atcttactgg ticcctcatt aatcaatcag 240
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 tcaaatttaa tattatatta tgcttggatt ttaagtactt ctcttcacat acttctcttt 420
 attttttaa atttgntcaa gaaggcattg gattatttca anaattggaa ccaaagtttt 480
 aaaaaacttt gaaaaaaatc aagtaanggc tttgnaaagc ttttacacgt atnttaacct 540
 tnaaccaac naggggattt aaaatccggg gag 573

<210> 6221

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6221

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taccttcagg gctttttcat aaaacttaac attaaattaa ctaagtagat gtatctcagg 180
gagttacaat aaggagcatg gttttaaaca acttaaaaat gttttaaaag aaaacaaaag 240
gtaaatacct tataataaca gacctaat ttaattttta gaattaaaaa aaatctgcaa 300
gcaaaaatta cggactgcag tataacaagg gtttaaaaat gttaatagct tagatttaac 360
atgctactaa tgctcactct acatctactg aggtagatgg tcatcttagg atgccacat 420
aggtagttaa acaaagcaca aaccttctgc atatgggtac gactatcaaa gctctgcaac 480
gaatacagng tttgtcaatg ctggcccaac tggtagtctt ggatatggac ttaacaagca 540
gaccnaaatg aactgcaang cnatcactaa aaatta 576
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<210> 6222

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6222

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aataaggctg accgtaattc tggggtgacg ttgccagttt catagtcata gataaacttc 180
tcaagggtc ctggatgctc acagcaagg tgaattcatt tcaaatccat ggtactgaag 240
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atcaaggatg gctgcggcct gcaggagca cttctctgac cgcacttgag tgatgagctc 420
 ttgcacatca ggcaggctcct ttaggctgtt cttgaaggcg ccagcatcag aatttacttc 480
 attgcatatt tcagggactc tggcatacag gacaaggctt cgttccactt ntttancnag 540
 cncataggac tgaccatgaa aaaccnctgg taacctttaa t 581

<210> 6223

<211> 504

<212> DNA

<213> Homo sapiens

<400> 6223

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 ccacctgagc ctcaccgctt agttcataaa acagccctgt gtcctttcta caaagccagg 180
 tcgtgttttc taccacacagt tcaggactcc agcgtagaca gcaaacacaa aatttgtttc 240
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 gatgggaaga tgcctgtgcc acacccttga atgtgggtcca cagattcacc agctccaagg 420
 cagcatctct ttccaaagca cctgcagcag gangctgtgt gggggcaaca aanntcactc 480
 ntgataccan agaatncccc cggn 504

<210> 6224

<211> 579

<212> DNA

<213> Homo sapiens

<400> 6224

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gatctacatt ttaacaagat ctcgatgatt tgtgcatgca ttaaagggtg agaaagcact 180
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 aactttaagg ctgacncaaa aagactcctt ccagcatgca agtgggatgg tctttttgta 540
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<210> 6225

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6225

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 cagacctctc ctgatctccc caggctgggc agtaattagt accttacagg tgtgatccat 180
 ggcccagaga aggcagccac tgtcagttac agttggactg ctgcatcaca gtggaggcag 240
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 ttagcccatg ccagtgaagg tgacaaaaaa caaaacaact tgatttttgg tcatatcaga 480
 aaaggatgga ggggaacacc caagtncctt cacgggcccc aagtgtctcc anccaaagga 540
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<210> 6226

<211> 571

<212> DNA

<213> Homo sapiens

<400> 6226

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 gggttataat gtgatgtttt gatatagcta catatactat aaaatgatta tattaagctg 180
 attaatatgt ccatcacctc acatacttat tttttataat gaagacattt aaaaacgtat 240
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 aataatcctg tacaatgggt ctcagaaact tagccctctt gtctaactga aacgtctgta 360
 ccgtttgatc aaccaaagat ggcttttggt ggcaattcaa ttttttgac aaattcctca 420
 tttgtcttc atttgaggtt ttatccatta caagagagga agatgacnca agccagaata 480
 gaggaagatg aacaaccctc aggatctgaa ggacactggg gggttttttt aattaatttg 540
 aggtatattg ctaaaacggg ctacttgtgc c 571

<210> 6227

<211> 579

<212> DNA

<213> Homo sapiens

<400> 6227

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 ttttganaca gtctgtctct ctatcaccca ggctggagtg cagtggcatg atcttcgctc 180
 actccaacct ccacctcctg ggtaagcga ttctcctgcc tcagcctccc aagtagctgg 240
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 atcacggcat ggatacaggc agagtaacac aaactatcct gtaggcagtt ttaaaataag 480
 tccatatttg agcncattna aangtattga acagatggga gattattcag aatgagattt 540

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579

<210> 6228

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6228

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 caacaaactc aaacccttga aaaggctctaa gatggttctg ttaacatcaa aaaaaaacag 540
 ccttanagct ttccgacact gtttagtgat gaagnctcan gntnttt 587

<210> 6229

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6229

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tagttaattg aatcatcaac tactctaata cttctgcctg tcctgttttg ggttgaaagg 360
gacacaattc aaggtcaaag accatgtcag ttgcttcctt tgcatctca acactcagac 420
agcaccctct gtagacctga gtattgacaa aatgctcttc anaagagctt ntccagtcac 480
tctggaaaacg gccttcagag gcctccgaaa tagncctata attaataaat atttggcctt 540
gggggggttta acaagtggg 559

<210> 6230

<211> 577

<212> DNA

<213> Homo sapiens

<400> 6230

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ttacaggtgc ctgccaccac tccaagataa tttttgtgtt tttaatagag acagggtttc 180
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gaggactgag ttacactgag ttttaaagga tgagtagaaa gtggccaggc aaagagaggg 360
agggaaagct tccaggagga aggagtagct tgtgtgaagg ttctgaggtc agaaaagtag 420
ttttgcaaaa taaaggaact gaaaaagaga tcaggtagag agacagaaag gcnctanaga 480
gaagcacata aggtggcana naangagaag cagttcttcc taagatatct atcaagngcc 540
tatttttaac agggctagca ttnttgatga gactgtt 577

<210> 6231

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6231

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 ctgtgatgga agaaaggttt tactttaaga aaatctgcag ctagtaacac aacaggtggg 360
 ccagaccagc agctctggct cagattctgc tctacaatga taagctgttt aaccttcgac 420
 aagttactaa actgcctgag tccaagtgtt ctcatctata aaaagggtga gcaataatat 480
 ctatTTTTgta aagttgtgag tgctatataa aatatctaca gggactctct agtgataagt 540
 ggagcancta ctatggtgta aaacatacaa attgct 576

<210> 6232

<211> 564

<212> DNA

<213> Homo sapiens

<400> 6232

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 aagtaggtat tattatcaat ctcatTTTaca gctganaaac tgaagcaaat cacttcaact 180
 aaggcaatgn ggtctcagga tgtgtgctct ctgttactca naaacaaaag gtacactttt 240
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 ctaagatata ttttatatac tttataaaaag caaagaaagg tatacatTTT atagtgaatt 420
 ctattcgaca ctgattatag gaaaaaagaa attagtactt taaggaaagc aaactntggn 480
 tntncccaaa ttacgtTTTa aaaaagctaa aatncccata ngggtctgcg tggctaaggt 540
 tattattttn tcaaaaatca aatg 564

<210> 6233

<211> 597

<212> DNA

<213> Homo sapiens

<400> 6233

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gggtagtttt gtactgatat aagagttcat aaagtgataa actcagggtcc aaaatcttca  120
gcccacatca aagacttcat gttcttatga ctctagaaac aggccagccc cggctgctgg  180
gctcttgga tcatggagtg tagctacaca taaagaagct cccttgtaa ggacatgaca  240
tcatgtttta catcttggtc cttttcctgc cacctgtctt cccagaagg cctctgcaac  300
cggttttttg tcagctcaag ttgtagacca tcaaacctgt gcttaaacca gcgatgagct  360
tcttcagat tagctgttat ctgttctgat tccacactgg cttctttcag cgtattctct  420
gntgcctctt tacatttctt cagggtgtctg acagtttctt ccaattcctg gcaccgattc  480
tctacttctg ncttattttc cgtctgcttc taaggtgcc a gctcttgctg gttattccga  540
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<210> 6234

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6234

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aggcatgcac caccacgctt ggctgatttt tgtactttta gtagagacag ggtttcacca  180
tgttggccag gctggctctg agctcctgac ctcaagtgat ccacctgctt tggcctccca  240
aatgctggg attacaggca tgagccacca tacctggcct cttttttttt tttttttttg  300
agatagaatt tcaactctgc acccaggctg gagtgtagtg gcatgatctc agctcactgc  360
    
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aacctccacc tgccagggtc aagagattct ccttcctcag cttctcaagt agctgggact 420
 acagttgtgc aagtaccatg cctgggtaat ttttgnattc ttgagtagag ataggatttt 480
 gccatgttgc ccacctggct tgaactctga cttangcaac canccacnta gcttccaaag 540
 gctggataca gctgaccatg gatctttaac atgccaaagn tnt 583

<210> 6235

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6235

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 tcagctcaca atattacccc tttccagaca acagcacatt caaatgttca agaaaacatt 180
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 gctctacctc cacacctcta tctgaacaaa aacgattact ggcttaagtc ctcgtgttgt 360
 aacgcatgag ccacaggaat atcttagcaa gtacgcactt tatcaagttt caatttgcatt 420
 gtcaaaaacaa aagttttttat gttggtcatt tatatttigna ttcactcaga tttccctcaa 480
 tcaaattaaa agagaaggcc taattncaag ccaactgnacc ataatggttg ctggcctcga 540
 tgaaaggata cttgggtcatg nccaaaaatt ttcccaggtc cncattt 587

<210> 6236

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6236

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cattatgac tgggctcctt agagtacaaa cctcaccagg cttagcatc atccataaga 120
aatggtggat tacttaatga cttataagta aaacagtcac taaatgatcc ttccatactt 180
taatcctctt atgcagagac tgagatactt ccatacatc caatatctgc aactttgggt 240
ctattaaagt atttgataaa agcaaaaaca ttttgtgacc acagaactct atggaacttt 300
tttccctttt aaagtgtcag gtgaacctag cgtgataagg caatgttgcc tacatatccg 360
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atactgctcc caccaggggt aacactgntt atgttccctg gaccctacat ctattcgtac 480
ctgaaacata atttgnataa aatatgatgg ttcttttagaa atatnttagt tttttaataa 540
actggcnnat gaaaaaangg nttcnaattg ggaa 574

<210> 6237

<211> 165

<212> DNA

<213> Homo sapiens

<400> 6237

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caagttcctg cctcagcctc ccgcgtagct gggatcacag gcatgtgcca ccacgcccg 120
ccaattttgt atttttagca gagacngnt tnnncangc tganc 165

<210> 6238

<211> 597

<212> DNA

<213> Homo sapiens

<400> 6238

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caaatgttcc aatagaagca aaatatctt ttaatattha acaagttatc acagatagct 120
aaaaacatag atgcaaatga aattccccca gagaacaaac tgaaaatatc tggatatcagt 180

gctctgaaat cccaactatg aaagccatat acacaaaaat gtaaccctta tatcattgca 240
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 ggtactatac ttaaaacatt aagtaaaaga agtgaatgaa actcatttaa aggttgncaa 420
 aaaattagca actacttgga gcttatcaat taaaanggaa ccangntagc ngaccccntc 480
 ntagatccaa agaaatttga tccaggtcac tggaaatcagc tagnaactctc aaggcccatg 540
 acttaatgcc ggagttttta cgggccccna agttgattcc aggccacttt tnaaagg 597

<210> 6239

<211> 599

<212> DNA

<213> Homo sapiens

<400> 6239

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 tataaaatct tctaaacaat cactgggtatt gttctactac taactataac acagtggcat 120
 taacaatttg tcccactttt tataactcatt ctgcttatta gtttaaaact gactgggtcac 180
 agactgattt tgggaaccag ctggcaaaat cacaacttca ttttggtaat gaataactat 240
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 agttaatatg ataaatgaat gacaaattag tatactatct aaattttagt taaatattct 360
 ggaaaaactg tttcacttgc ttggatgatcc acagagcacc cacaaagtta gctttttaa 420
 ttggaagttt aaaatcatga aggaaatatt ttaaatagaa aagctcacat cttncatata 480
 aatgggttaa aaaatntaaa cttattggac ctaatctatc agaattgggt tggttggtta 540
 ccaggggtta aggctggaag aatggtntc tttacaaaa aantaggaaa aaatctggt 599

<210> 6240

<211> 609

<212> DNA

<213> Homo sapiens

<400> 6240

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 atctttttat ttttatTTta tttttttgtg gaggcagaat cttgctatgt tgctcaggct 180
 ggtcttgaac tcctgggctc aggcaatcct cctatctcgg cctcccaaag tgttgagatc 240
 tcaggcaagc ggcaccatgt ctggctgata tgtcttcaact cataccttaa caccttttcc 300
 tctgccagge gacagtcttt tgagaaaagc aactatacta ccaattctgg accccttgaa 360
 agatccagca gcacacacct tgggtgctca agaaatatgc gttatttga atttcaaacc 420
 ctatcacaat agctgctaca gtttactgac gggctactct ggctggggcc ctggacanga 480
 atgggcctct tactccatta atccttaacc cttaccttat gangnangna gtataatgcc 540
 attttacaga agganggaac tgcttaaaaa ctggtanggg cattgcccaa ggtacactgg 600
 ttgtnaaag 609

<210> 6241

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6241

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 tttaaaaatt attttacagc aggaatttac atataaatac actctgtaca atgcgttaac 180
 tgaacaatca ctgggcttcc atcatggagg agaaatgatt ctaggacgag ccagggcagc 240
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 acttttctct ggttttttat tcttttgctt gcctttgggt ttgtgcttcc tgngttcttt 420
 tcttctcttc ttccgctggc tcttcttggc ctgggcttgc ttggtctttt atgttctctt 480
 ttgaggacct caagggttgc acgagcattg ggcanaaacg gaggaaccnc ggccgacttt 540

ctnttnacna tcngatcttt ngatcggaag gag

573

<210> 6242

<211> 442

<212> DNA

<213> Homo sapiens

<400> 6242

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 gtgcctggct ccagcagcct gggcatggcg gcgactcccc caaaaacacc ccagctgggt 180
 ggggtgcctgg gggcctaggt gaggctgggt ttggagctgc tggtagcact gcctcgcttt 240
 tgcaggcagc gcacagcact ggggacctgc aggctgtcg tcacctggaa gctgccacac 300
 cataccgtga aagcaggcag cagcggctgt gtgaacctgg tcttgaaagt gtgcagcact 360
 tgtttgggtgc gggcattgta gaaggacagg aggccttggn ggangtacag ngcacacca 420
 ggcagtcngg cancgnggnc gt 442

<210> 6243

<211> 589

<212> DNA

<213> Homo sapiens

<400> 6243

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 cagtatacat ctattaagtt aactgcagta ttatttcacc atcaccattt acatgtactt 120
 ttcaggtatc agagacttag tgctttaagt agcaaattac ctaaattatg aacacatatt 180
 tccaaaaaca aaatcaagct cataattacc aagtatatat gtacagtgca gattaataaa 240
 aaactgaatt agcacatatt tctcttttct aaagctccta tgaagaactt acactcttct 300
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ataaaggctt aaatTTTTgt gagactaacc cataaaaaag gactccaatt ttaaaccaat 420
ccctgaaacc aaagcattca aatatttgaa tattagttca atatttctac atagcacgat 480
aaggattttc aggtacttca agttttggct ttatttttaa taatgggaat gggctacaat 540
taccattaac aattattcaa gtattttang ggccttacat atcattacc 589

<210> 6244

<211> 596

<212> DNA

<213> Homo sapiens

<400> 6244

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taaacaaatt catactggag atatatgtca gaaaacattc agcctgagta aactgaacgc 120
tctgtacaga aaacaacaga acaaaacaga acttcaacag taacactggc gtggcataat 180
ataagccacg caaaatgctt ccaaattccat tatctcttct gagtttcatc ttgtgaggtt 240
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ggccttaaaa cccttatata ttatgaacta ctcttcatta gaaaaaagta tgcattttct 480
taaagcataa atcacaatat atatttttaa agggttccca agtcttttct acttcataca 540
aatgaagttg gctgnatttt aaaggcttnc cctttgggaa aaccggaccc aaaaaa 596

<210> 6245

<211> 511

<212> DNA

<213> Homo sapiens

<400> 6245

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ntnactgcaa gctccgnttc ccgggttcac gccattctcc tgcctnagcc tcccagagtag 120
 ccgggactan aggcgccccgc cactgcgccc ggctaatttt ttgtattttt agtanaggcg 180
 gggtttcacc ttgttagcca ggacgggtctc aatctcctga cctcctgac caccgcctn 240
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 attaacgatg ggacacatat tctttgcact accatcaggt anaggatatt ttcctgctg 420
 naattttgag caggccccgg gacttggttt tnaangnaac attggataaa tangctggtt 480
 caagttttat gcncaggcct taanaggcct a 511

<210> 6246

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6246

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 ttagtcctgc acagngttct anaaagggtt tttcttttca naatatccat attctccaag 120
 tagcaagtta gaatataagg aatatttgcc attaaacctt tctgttanaa atgtaaacad 180
 gaaattgcct aatatagacc tatctcanat gctaaataga attgnttata acacctttgg 240
 aatataatta tngagactac acttaacctt ctggcatttt gcttcctgcg gacaatttgc 300
 aatagcatag aaaaatatatt tgnntgngta tttcttatca aacagatatg ctaaagttct 360
 gtttagagag taatagcatt ttattctaac ttttaaaata aggnagccat ttgcagcagc 420
 ttgatataata agtaaacaaa aatttttaatt attaatataa cactagcaca tncnctgaag 480
 catctaagaa attcaaaatt tnaaacnctt nccagtaatg ncctttgagn gggaccattt 540
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<210> 6247

<211> 527

<212> DNA

<213> Homo sapiens

<400> 6247

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ggacaaatgt ccatggcana nccttccaaa aaactcgccc nttaccctgn ggggcaaaaa  180
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gagggggatg ctgctcctgc ctggggcctg cctttattnt gagggcccct ggcccgaant  420
gggtttaana agggacctng ggcttgccca agaaccttga aanccctggg ttggccantt  480
ttggaggcga aaggccacag gtcctgaac cccttgcca aggtttt                    527
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<210> 6248

<211> 548

<212> DNA

<213> Homo sapiens

<400> 6248

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acaacttgca atatcaacaa tgcatttggc ccaggaactg ctaatgaacg tacagtgcag  180
tggtggttca agaagttttg caaaagatac cagagccttg aggatgagga gtgtagtggc  240
aggccactgg aagttgacaa caaccaattg agagcaatca ttgaagcaga ttgatcctct  300
tacaattaca tgagaagttg ctgaagaact caacgtaaga actcaacgtc aaccattcca  360
cagttgttca gtatttgaag caaattgaaa aggtgaaaaa gctcgataag tgggtgcctt  420
accagctgag ccaaaattta aaaaaacccc ggttttgnaa tgggtggcntc tcttaatctt  480
cacaaccacc gaaccttnt taatcggact gtgaagggca ncaaggacta gattttatnt  540
gacangca                                           548
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<210> 6249

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6249

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cagagttgga aagcatttta ctgaaagcaa aatatttaga gaaaatagac atttatacaa  180
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tagagccagt taaagcttta aaaaatttaa gtggaaattg aaatatgcaa aaatgtataa  300
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gnttccttc ttcttcatat tcttgcttgg naatcncatt tgggtgaaag gtncccaaga  480
ggctanaatg ganccgccaa tccttgagct aacctccgtc cctgtggatt attgcaatca  540
atttn                                           545

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<210> 6250

<211> 542

<212> DNA

<213> Homo sapiens

<400> 6250

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gccatgacat ntagaagcat ttattttatg caaaaaactt aaatatgatt atngntacnc   60
ataaangnca cacattacct atgctgaaca atgccaagaa acataatata ttgatgcaac  120
agttttctaa aataaacata aaaatgagcc cagaccatca gacaaaagca aaacacttat  180
ttccaaatag cacaatgctg aaaattgata gcaatcctaa aacacctcca actttcctta  240
aaagctgcca aagtccaact attttttaa aattgatttt ttttacatta ataaaaatct  300

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ggngacaaac attataaaac caaatgctgg acagtcttta ctcctttaaa attccaaata 360
 ttccaacata atcacaggag taaaaacat tttaaagnga tatgctttat gaaacaaacn 420
 acaatatgga cntttattgn aaattatntt aaactaaaat gggggggaat ccaaanttgg 480
 accnggttac ctactggcaa atcatnaatt taaattttct cacttggata aaaatcanaa 540
 gg 542

<210> 6251

<211> 493

<212> DNA

<213> Homo sapiens

<400> 6251

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 nagttccagt gtatTTTTca cctttagttt cttggctcct ctccgcctct acaccagcct 180
 catatccaca cgggatgctc tctgctgagt attgtcttga gttagttctc cctctcatgt 240
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 gtgaaaaatg ctaccatagc attttgtttg tttataaaat gtcaggccct ggttccattt 360
 ttccccctc ttatatctaa attttgaaac cactggcctn taacaagtct gtantaggct 420
 taagttcaan gggccatttg gttctttngg gnctggttgg gaanccaatt ganggaaaag 480
 tttgctaaaa aaa 493

<210> 6252

<211> 535

<212> DNA

<213> Homo sapiens

<400> 6252

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 acaggagtgc gccaccatgc ccagctaatt tttgtatatt ttttttttag tagagacagg 180
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 cgcccaggct ggagtgcagt ggcgcaatct cggctcactg naaccttcac cttctggggt 420
 caagcgattc ttctggctta nccttctgag taactnggaa tgcagccttc gccacangcc 480
 ccgntgattt tggatgggta agnaaaaang gggtttacca tgttggcagg ctgn 535

<210> 6253

<211> 503

<212> DNA

<213> Homo sapiens

<400> 6253

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 ctcacctctc tctgcttgc cagccttctg agtctccaat gtacattata ccactctgta 180
 tgcccttgca tatccataag cttagaaacc acctgtaa atgagaacatgt tggatttaga 240
 ttttgattcc agaattactt cacttaggat aatagcctcc agttccatcc cagttgctgc 300
 aaaagacatt atttcattct tttttatggc tgagtagtat tctacaatat acatatgcca 360
 cattttcttt atctactctt tggttgatgg gtatttaggt tgattccgta tcattacaat 420
 tngaaactgn gctgngaaaa atatggcttt tttaaaaaat gggnttcctt ttcattnggg 480
 aanaacctca ntaggggaat tca 503

<210> 6254

<211> 547

<212> DNA

<213> Homo sapiens

<400> 6254

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 acagtcagcc caatgtctgtc tccgttccat gggccagcac aggcaggcgc cactctgtctg 180
 acatgaggac ctggggtagc tcagacattt gactacccaa gcccagaaag gagctgggtc 240
 cagcccttac ggggaattcc ttttaattccc ccaggccagg tgagtgtga ctcagtgatg 300
 acaacagctg tagaagtagg ggtttggtt ctggcccaga tccacgccct tgtcctctgt 360
 catcacctgg aaggcagcca cactgacgta atcctctgcc actttctgga agagctcgtc 420
 cacactntgg cctgncttgc tggatggtt aaagagctga actttgatat ctgnnaagaa 480
 gaatggctta aggcctatac cctggnaatt ggttaaccgg ncaaaaggga nggctancag 540
 ttaagga 547

<210> 6255

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6255

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 gctgggatta caggtaccca ccacatgcc tggctaattt ttgtattgtt tgtagagagg 180
 ggggtttcac catgttggtc aggcctggtc tgaactcctg atctcaagt atctgccctc 240
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 ctttttatgt ggtttaagtt ccttcacat ctgactggcc acacacatgg gcagagcttg 360
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 agcccagctn tactaccagc tntgnnctta tnggcaggtc acaaacctt ttttaacttg 480
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 n 541

<210> 6256

<211> 470

<212> DNA

<213> Homo sapiens

<400> 6256

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ggagacagag tctagctctg tcacccaggc tggaatgcaa tcagtacat gatcttggtt   60
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aaacaaaaac aaaaacaaaa acaaaccaga attggctttg ttattttctt aaccctagac  180
agaataggtg gtcaaaggaa aaggaggagg agataccaga taggtttgca aatatggtaa  240
agttcattat tacccaactg ctccctttgaa atctaaaagc gttctttttt ctccaggctg  300
acactggcca catccacatg aagaatgtaa gcacatcaat cagtacagat gccagctgag  360
ccctgtttct ccttttttaa ccaaatataa aatttgaagt cctnccacaa ccatntgaat  420
gggcctnccc tttngncaag gnacttttaa aattaaacnt gaaagggttg   470
    
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<210> 6257

<211> 429

<212> DNA

<213> Homo sapiens

<400> 6257

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gtaagaaata aatttatatt tttaaataat caccatattt caggtattct gttgtaagta   60
acagcaaaca gactaagaca agtaggtaaa tcattatgaa gagaactatc tagtagtatt  120
tttcaaaaca ttgtcctgaa catataccaa ggtagatcgc attctgggcc ataaaacata  180
ccttaataag tttaaataaa tagaaatcat acaatgtatg ccctcaggcc gcagtgggaat  240
taaactagaa accgatgaca gaaaaagagc tgaaaaatcc caaaatattt ggatagtcaa  300
caatacattt ctaaataata catagggtcaa agaacaaata tcgagagaaa taaaaaagaa  360
tattttaagc taaataaaac tgaaaatact acctatcaaa atctgggana tgccncaaaa  420
    
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ggtagnnnn

429

<210> 6258

<211> 537

<212> DNA

<213> Homo sapiens

<400> 6258

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 agatgatgct gtttaaaaaa gaaaggcaat tccttctacc tccatctctg gagtcagctg 180
 agggagggca gtgaactaga ctctccccag aggattgtcc taactcttaa ctttagagaa 240
 aactgtgtaa ggacctgcac atatagaatc atttatttgt ccaaaatagc aaaaataggc 300
 ctatttcacc cttagaatt tgcaaactg atcagtcatg atcataaaaa tgtgaatgga 360
 ttccagatgc aatccatgtg ggcatgctct gtggaactag ctatgcatct tcagcttgaa 420
 tgaacatgaa gctgggtcatt ttcatataaa cctgnntttt aaacttncct taattaaatt 480
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<210> 6259

<211> 532

<212> DNA

<213> Homo sapiens

<400> 6259

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 ctctgagta gctgggacta caggcgccca ccaccacacc tggctaattt tttgtatttt 180
 tagcagagaa ggggtttcac tgcattagcc aggatgatct cgatctcctg acctcaagtg 240
 atccgcccgc ctcggcctcc caaagtgctg ggattacagg cgtgagccac cgcgcccggc 300

caattttctaa ggctccatta gggctaaggt tcatgtatcc atggtgaagt atagaagaac 360
tcagaatcgt tccaaacata atgggcttgg agtaatggag aactccaagg gcaggaggta 420
accattaaag aggccntnat ggaaangga aggagcaaca ttncactaa aagccttgg 480
tnaagtttgg ctttgcccct acagattitg aaccctgagn aagtacttac ct 532

<210> 6260

<211> 524

<212> DNA

<213> Homo sapiens

<400> 6260

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gcgtgagcca ccatgctcgg cctaggtgac ttttcatggg gagataacac acaggcatgg 180
tgagcagcgt ggcanaggac ctgtgtgcag ggccctgtct cccgccgggg aatccttcat 240
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cagtgcagac atggaggaga cagaaggtga aaatggtttc tgagcccctc aaccgccttt 420
ggggacacca acctngnggt nttaaaacc aagccttctt tgaanccgga aaaggaggag 480
caccgggtn ttggcccaaa nggaccacc tgaatcaca agcg 524

<210> 6261

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6261

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ggttttctaa caccacctac ttggggagat ggggaagtgg gactgtgccg ctcaccatca 120

gctagaacat tagtggtcag cagggacttg gatacatacc aactgactgt cccaacagga 180
 actcagtctc aacagtctac agaggacag tcagggtacc ctggactgct ggcacagctt 240
 ggcacatagg aaatggttaa gctgaccctt tcctggcctc ctcccatct aaaaagaaaa 300
 aggcgccggc gacctcagct gcaggttgct tcccatcca gacgacctta aatatcgcg 360
 acaaaaataa aaggagacca ggaaaaaat naaacataa aagaaattcc cattctgggg 420
 aaaccggaag caaggtnaaa ggggaacccg cagaatttan anccagtanc aanatttggt 480
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 gaagg 545

<210> 6262

<211> 510

<212> DNA

<213> Homo sapiens

<400> 6262

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 taaatccact ttttaaaaaa atttccta atgttttggtta ctttaatttt ctgttttaca 180
 cacataactg gaacttgtaa atgggcaact gccttcttat atgtggaatt atagtttttt 240
 cttgtccttt cccccaacc acatatatta aatcatggga cattatatat caaccctcac 300
 ctaggctttg ggttattcta taaggaaaag cctttgtcag agtttggtg tctccttcct 360
 ttcccatgcc cacaaaagat gtgtgactaa gtggacaaag aactcagcac tgggcctgnt 420
 taagactntg gccntattct caaaaaaatt ttgangggag gttcctctaa anactttata 480
 actttgccct ttngagaanc atgttttaaa 510

<210> 6263

<211> 515

<212> DNA

<213> Homo sapiens

<400> 6263

gagaatgagt ttcactcgac acccaggctg gagtgcagtg gtgcgatctt ggctcactgc 60
aacctctgcc tcccaggttc aagcgattat cctgcctcag cctcctgagc agctgggact 120
acaaatgtgc accaccacat ctggctaatt tttttttttt ttttttttgt attttttagta 180
gagacggggt ttcaccaagt tggcctggct ggtctcgaac acctgacctc aattgatcca 240
cctgcctcgg cctcccaaag tattataggc atgagccact gagcccggcc ttttttgttt 300
tttgtttttt taaaggcagg gttttgctct gttgcccagg ctggagtgca gtggtgtgat 360
cacagatcac tgcagccttg acctctcctg gtctcaagcg atcctnccac cttagccttn 420
anaacagctg ggaccncagg ngggtgg nac catgcccagg aaattttttt ggatatttgg 480
aaaaggcagg gtttcccaan gttgccnggg ctggg 515

<210> 6264

<211> 460

<212> DNA

<213> Homo sapiens

<400> 6264

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caagctccgc cccccggatt catgccattc ttctgcctca gcctcctgag tagctgggac 120
tacaggcacc caccaccaca cccggetagt ttttttgtat ttttttagta gagacggggt 180
ttcacagtgt tcaccaggat ggtctcgatc tcctgacccc gtgatctgcc tgccttggcc 240
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tttaagacac ttcaaagatg caaaataatt tcagaactga ttcttgaaa cttgtaattt 360
taatattaaa gatagtcttg tttgtatctt tccatggata actaaaaatn acacaaaatg 420
gaaacagaaa tgcccattct tgnnttaacn nnggaacnnt 460

<210> 6265

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6265

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gttatgatcc ctttaacatc caatgcatgg atgtatagca tttatggtaa tgggtacttca   60
atcatgaatc aggccaggca ctgtggctca cgcctgtagt cccaatactt tgggaggcca   120
aggcaagagg atcacttgag ctcacgggag ttcaaccagc ctgggcaaca aagttagata   180
cccacctcca caaaaaattt aaaaaactag ccaggcacag tgatgtgtgc ctgcggtccc   240
agctacttgg gaggctgacg caggagaacc gctcgagccc aggaattcaa ggctgcagtg   300
agctttgatt gtgccactgc actccagcct gggagacaga gcaagatcct gtctcacaaa   360
aaaaaagaaa aaaagaaaga aaaagaaaag tagtgaatca tgcaataagt tgtttaatga   420
acatgccccct gncagccaca gacttcacaa gggccaggga attgnnttgn ttttcccaan   480
tttgggcttg gttnangaat tggaacntcc agacttttgt tgcataatgg agcaaatcaa   540
tcttcc                                          546
    
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<210> 6266

<211> 368

<212> DNA

<213> Homo sapiens

<400> 6266

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agntcttcc tttttttcc ttttttttc ttcttcttct tcttctttt ctttggcttg   60
ggnccttctc ttcttantn ntcttctct nttctttctt cctctntct tctcttttcc   120
ttttttcttt nctttcttcc tcttcttcta ttggttcttt tttcttcttt ctctcttctt   180
ctctcttctc ttctcttct tcttcttctn ctttcttttc ttctncttc tcttgggtct   240
ccttcttcc tatttctct tcttctctt ctctctctc ctctcttct tcttcttct   300
tntcttctc ttcttcttc ttntcttctn ancttcttgn ctctnctct tctctcttc   360
tcctaggg                                          368
    
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<210> 6267

<211> 455

<212> DNA

<213> Homo sapiens

<400> 6267

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ggagaaattg taaacctgat tctaaactgt atatagaaac tcaaaagaac tagaatagcc 60
aaagcaaact tcggaggaaa acaaagaaaa tgttgtgtga cttataatTT atgacttcaa 120
gaactccaaa gcaagagaaa atgttagtcg cataaaaaatc tatgaataca tcaaagaaac 180
agaaaataga gccaaaatag attaaattta aatagtcatt tgatttattt ttttttacat 240
aagtgccaat gcaatctctt gagaaacaga aagtctatcc cacaaatggt gctggaacac 300
attgatatcc acttggaataa aaaaaaaaaa gaactttgac acctatctta caccatatac 360
acaattaatt tagaaagaat cgtagtccta aaaataaaaaa tggaaacat naagcatntn 420
aaagcnaacn ggngaattag aggggaacnt tttttt 455
    
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<210> 6268

<211> 567

<212> DNA

<213> Homo sapiens

<400> 6268

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aacattgtca cacatcagtt tattgagaaa atcatgatgc tatatgttaa ttctcttcaa 60
gtgattactt ttcattatgt cagatgagac tccaaaaggc catagccatg aagtttagaca 120
ctttcccata ttttgttcag gaacacaaaa accaaatgca aagaaatggt taagagaaca 180
tgaaattggc ctcttccttc cccaaccaa aggtagtcatt taacagtcag gaaggacaaa 240
ctgaaacatg taaaagcaa atatTTTTgc tagattttat tttcaaagtt tcaaaccttt 300
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tcaacttttag ccaaagcctt ctgagctgca gtcattttgc tatttttctt ttcagtcttc 420
aaatcttttag tattaaactt agtgtaatct tctttgnttc tacaggctca tctgataact 480
    
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ttattttctt tgatggagga tttggcaatg angcttaang gtctggaagc ttaagtttta 540
aataagcatc cctaaatctt tngggng 567

<210> 6269

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6269

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cagaatactt caaaacgtaa gccacagttt ttctttcaag gatgtgggaa gcattcctca 180
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aaaaatgctt cttcatatgg tctttcacta aaataatcaa cgtaaaaata atgtaaaaat 420
gtgtttttgc ttgaagattt agtgaacggt caaggaatca caatttttga gctttacatc 480
cagagtctat actatgtgaa aatactacag ngcctcattt aaaaagcncc gtgattaaat 540
tncaaatcca aatgccaaaa tcaata 566

<210> 6270

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6270

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ataaggctga ccgtaattct ggggtgacgt tgccagtttc atagtcatag ataaacttct 180

nangggctcc tggatgctca cagcanggat gagttcattt caaatccatg gtactgaana 240
 agcatgacaa agcgtttcan ggccccatnt gtgcctgggtg tggactcctg aacgcattac 300
 tgaccaaagg caatcaatca cagcgccgac cccggcgggg ccgatccgag ggcctnacta 360
 aaccatccaa tcggtagtan cgacgggcgg tgtgtacaaa gggcaggac ttaatcaacg 420
 caagcttatg accgcactt actgggaatt cctcgttcat ggggaataat tgcaatcccc 480
 gatcccatcc gaatgggggt caacnggtta cccgggctgc cggctaaggt angccacctt 540
 accnactnat g 551

<210> 6271

<211> 537

<212> DNA

<213> Homo sapiens

<400> 6271

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 acgatttgtg ctcttgccct ggagcaaatt cttctcctct gctctacgcc acctcaggca 180
 gcaggacag ggcaaagggc tccaggcaga aatcctgggtg gctgggcagc agagtggcag 240
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 caggtgcacg ggtggcctgg gcagctcccc acagatctgg cagaggggac aaccctgct 420
 tctattgcac atcctggctc acccccctgc ccgagcagta ngccacaaaa tgaaacactt 480
 ttcaaantca gaaagcccgt gctttgtgcc agcttnanga ngggaagttn gttgntg 537

<210> 6272

<211> 512

<212> DNA

<213> Homo sapiens

<400> 6272

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 tcagaacaag ctcaaagacc ttctgactt ctgcagggga gggtgtcctc cctctcgtcc 180
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 ggtgggctgg aaagtgtga gaaccaaca ttttcttaat nnnnttttct ttncnttgag 480
 acaagtttta ctttnttacc caggttgga ng 512

<210> 6273

<211> 569

<212> DNA

<213> Homo sapiens

<400> 6273

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 accaccatca accagacagc atatattacc aattaaataa gtgccacta tttataaata 180
 gtgcatgttt agggatcaat aaaaacatat ctttacacgt aaggacatat cctaatttta 240
 tcataatata tccaaactgc aaaagcatgt gctgggctgt tctctaccga ataccataaa 300
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 tagcttttgn tttactttcc ttttatataa aaaaagatgt acagggttct cttctgangg 480
 ccagtagtca atttagaggg gatacttcng aagctttttt tgggtggtgg aattgggnac 540
 ctttacttcc caagggnccc ttntaccan 569

<210> 6274

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6274

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aaaccacaaa tacgtttatt cctctaaaaa cagtatacca tctttccaat tttcaaaatg   60
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gcagagcaat tcaccagcac catcatcaag tgagctacaa atctatcttt taccagagca  180
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cattcatttg tcacatattt caggccctca tacaccctt ttaaattgtc taactcctat  300
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aatattttat attagcacat agaataccct tagaatatat tctggtatgg tctaaagaag  480
ttggggttcc ccttttgatg aggccttcaat tcttctgaga cctttcctgg atagncattt  540
ggtctattgn tttnacttct ctggnn                                     566

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<210> 6275

<211> 556

<212> DNA

<213> Homo sapiens

<400> 6275

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cagatcagga agttttattg ctgacatgca ggaagagtcc ccatgtagta caaaaatatg   60
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accgtccat cctcaggaat ggtatactcg gcagccttga tcttgcgga gagctcctgc  180
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aggcaaaaat tggatgatgg tatccgatgg gcctcttggt gagcaccatg ttccccagct  420

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tcaggctctg tgcacgatat ttttctggtg caggccttca ccacgcggac cacgtntana 480
agattacceca ggnttccttt tgctgagcct ttntcttgat gactaatgct tcaggttgat 540
aaggcaacgg cttttc 556

<210> 6276

<211> 554

<212> DNA

<213> Homo sapiens

<400> 6276

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caagctccac ctcccgggtt cacgccattc tcctacctca gcctctcgag tagctaggac 120
tacaggtgcc caccactaca cccggctaata tttttgtatg tttagtagag acgggggttc 180
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gcctcttagt cagaatccta agaacataac caggaaacaa atgaggcaag caagatcctg 300
ctataaatca aagaactact agactcatga aataatttta aatgcgtgtt aaccatgagt 360
gaaaactaga aattgacagc cccaattttt ttttaagggc agatggtact ttacatcttg 420
gtcttaggca taaaactatc tagnaacaaat gtctagggat cgagtcatta taaaagtcac 480
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acaccagtgg aatt 554

<210> 6277

<211> 556

<212> DNA

<213> Homo sapiens

<400> 6277

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agcaaacgct aagtgaatgg gttcccgtgc cgagggtgtc ctcatctctg ggctctgtca 180
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 cttcttcttg cgggtgactg tcccatcgcc ctcggtatcca gactcgcact ctgagtcgga 420
 gtctgacgaa ctggagctgg aggagctgga agagtcgctg gagctgtcgg aagctatccc 480
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 taaaaancct taccat 556

<210> 6278

<211> 556

<212> DNA

<213> Homo sapiens

<400> 6278

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 atgatatact cgcacctaatt aatctggtct ccactaagga cttattgtaa ttaaaaagtt 180
 aaacaagtta gctgatggac aataaatctg ttttaaggag ggaagagaaa acaggccctt 240
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 accatactaa ataaagaatt ggaggccatt atccctatat tataattaaa ggtggggggag 360
 gggagaagat cctcacaaga attcacaag ctagatatta ttacccttcc tctctatttc 420
 tcaacagatg agaaaagtga ggccaaaaga agctaagcaa tttggtcaan gccatcatgc 480
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 ctgaaccctg ctggtn 556

<210> 6279

<211> 555

<212> DNA

<213> Homo sapiens

<400> 6279

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aagagagagg gtctcactct gtcacccagg ctggaatgca gtggcagaat cacagctcac   60
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gctaattttt ttatttttat ttttttagag gcatggctctc gttatgttgc ccaagctggt   180
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ggatgagcca ctgcacctgg cagaagcacc attcttatag tattgtatat ttacaccctc   300
atatittcaa agttaaagga gcaaaatgtt tcccatgcag aagtagagat ggaaggagta   360
actaccacca tggcacttag atgtgaccaa atttataata aacagagtgt gattataact   420
aatctgcatt ttttaaattt acatatgaaa ttcaccaaaa aaaaaaaaaa gggaangcaa   480
ngggcaaang angggcagca atttagataa tagggctctc taatccttc agtcttggaa   540
natccgtac tctta                                                    555

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<210> 6280

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6280

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gtatttttag tagagatggg gcttcacgat gttggccggg gtggtcttga actcctgaca   60
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ccctggccag attaagttaa tttcaattgt tttgcagtcg cttgtactac aaagtgctat   180
aatgcagata tttgggacac ggtgtttaga gaacttcctg actacctgga tgtgagaagt   240
gaggtaaaaa gagccatgaa tgatgtccaa gtttctagct taggtagcta ggtgaaatgc   300
ggagtcaatc actaagggat gaaactgggt gttgggggct aggaaagatg attatgtaca   360
gatttgaaca tgggtatttt catttgtggt agaggacatt caaataaaga tgtctaggat   420
gcaactagaa atatgaagtt aaacctgtta agaagatctg ggctggagat aactgatacc   480
ggacttcacc agattgaaaa tggaggncct tgggaaccan catttagntn tcatnggacc   540

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ttgtggaata aacttttga

559

<210> 6281

<211> 563

<212> DNA

<213> Homo sapiens

<400> 6281

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 taatgatgaa gcatgaaccc aggctgagaa gtgtacaatt tgattttaac tactgccaaa 180
 acagttaaca agctctgtct tatccactga cagcaggaaa tgtctttacc ccactactcc 240
 tgagattcta aaaaggga aaactaatttca caaacaacct ttaaaagaat ccatagatga 300
 ttctaagaac agcacatatt cagggtatta gaaaagatgt tttcttttgt aaggcatcaa 360
 tgattaaact aatagaacgc atatttacta acaaaagatg gttaacatta tcataaaacc 420
 atttatcttt ttaaacttct ctaattcctg ctaattttgc cagcttaa at taagaaatga 480
 atggcctntt ggcctaata actatngggt attaaaaact aagacatctg gaacttttag 540
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<210> 6282

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6282

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 aacagctgtg tgccaccatg cccagcta at gttttttgtt tgagacagtc tcgctctgtc 180
 aaccgggctg aagtgcagtg gcacaatctt ggctcactgc aacctctgcc tcccagggtc 240

aagcgattct cctgcctcag cctcccgagt agctgggact acggcatgtg ccactacgcc 300
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 tctcaatctc ttcacctcac gatccgccgc ctcggcctcc caaagtgctg ggattacagg 420
 catgagccac cgtgcccggc tgctaatttt tgaaaatata tatttttagag acttttcttg 480
 gggctctcgt ttggtatgca aggnccagncn tnaacttctg gntttgaacg aancctccgc 540
 tgggcttcca a 551

<210> 6283

<211> 560

<212> DNA

<213> Homo sapiens

<400> 6283

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 aacctccgcc tcccaggttc aagggattct cccgcctcag cctcctgagt agctgggatt 120
 acaggcgtgc accaccaagc ccagttaatt tttgtatttt tagtagacat ggggtttcac 180
 tgtgttgcc aggatggtct tgatctcctg acttcatgat ccacccacct cggcctccca 240
 aagtcctggg attacaggca tgagccactg cggccggccc acaataaaac atttttaaaa 300
 atcagaactt ttggcataat ctatttcgct tcccaggaa aaggaatgta gcagatttta 360
 taacagagaa gagaaagtaa agtcaagtca agagtctaag gtatttccat attatcatca 420
 aagttgcccg ggagaagggt ggggggtcaaa agcttaagat tncaggttg atgacctggn 480
 tttggnatcc aagcacagtt cctcagtact tacctgacct taggtnggta cctaaacctt 540
 ttgagccttg gttccctnat 560

<210> 6284

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6284

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 tgacaactag attagggtag agaggacagt cttgaggtaa atgagcataa ataggcagtt 120
 cttatagaca ctccccctaag gggcctgagc cccatcacgg catatacatt atcacccaaa 180
 gatggcatgt tgaacatatc aggaaagcac cttgtgcaaa aaggaaaaaa aaaaagtagc 240
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 ccttaattat gaggcanaagg aggggaagac ttgaaaagt nccactgaaa gattattcaa 360
 tgttgagctt tatctcacgt caatactgca caacaaaatc caagaagttt gtgtatgcaa 420
 caaagctaag aacaatgatt cattcctgna aatttgaaga agaatttttt tatttttccc 480
 atttctttaa tccttacaaa ctttttaata ttattatcaa gaggagagtg tganaaaatg 540
 tatggcacc ttaagggcnt tnaaaacntt ncctggacng 580

<210> 6285

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6285

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 agaatggggg aggacatttg gaaatcacat atctgataag ggactaatat ctaatatata 120
 taaaaactaa aacacaacaa caaaaaacaa cctattggat ttgaatagac atttcttcaa 180
 agatatacaa acttaaatgt tcattgatgg ataaagaaaa tatgtatata tacaatgaga 240
 tgttactcaa ccttaaaaag gaataaaatt ttgatacatg ctataacatg gatgaacctt 300
 gcgattatta tgctaactaa gccagacaca aaggacaaat atcctatgat tccatttctg 360
 tgaggtacct ggaacagtca aattcataga gatagaaagt aaaagtagtg gttaccagag 420
 gttgggagag aggggagaag agagagtgat tgntcaatgg gtatagaggt ttaagtttgg 480
 ggaagaagaa agtagttctg gnaaaaggta atgatgggtg cacaatcatg tgaatggnc 540
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<210> 6286

<211> 534

<212> DNA

<213> Homo sapiens

<400> 6286

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aatggattg tttttattaa tttaaatga aatagttttt gaatgacttc acacaaaaac   60
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agttgaaatt cgttaccagg tgaaaattct ggagctgggt tttgcactga ggatgctaca  180
cagccactag cctttttaat ttggtcttat taacagaaat actgacttag tgaaattaca  240
ggcataggcc tcttaatcgc tttttatgag tctgaacttt tgctttcaat accaaatagt  300
atctgaaaaa catgctcact tttgtgcttc ttgagaaatt ctaagaattg gccagattc   360
atgtgatagt cattccttaa tccatagtca ccatgagcct caaggagtaa ctcttcaaaa  420
gaatgggaaa aggcgcaggt cctcaccatt tccttctgnc tccacgttt cagcatgctt  480
acaggaaatg ngcttncnat tggggaccta aatgnngnc aaaacttctt acag       534

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<210> 6287

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6287

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caacgtgatc acccaactgt ttaatgtttg aaattttatat ttcatttctg aaggagagga   60
gacagacca aacttttata tctttccagt tggctgtaca atttctgaac cttgtccttg  120
tagacacctg gtcaccggaa accatcatgt ctgtaaaact accacacagt ccagcctcca  180
tcctcaactg cgcacctctt cctctctgca ctggagccgg ccaggccacc tcctcccaa  240
ccgtggaaca ccatggtgac aggagatggc cctggccagg gggaggctgc tgggactgca  300
cccccatcct gaccagacct cctcctttg tcccctgcag agcctccaag gcaggtcac  360
ctgacactgc aaccacattt ggtggctgtg ggcaagtcct taccattgag tgcagggtgc  420

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ccaccgtgga gcccctggac agcctaccct ttttctggtc cgnggcaatg agactctgga 480
ctatgagacc tttnggaaag gcagcccctg ttcncagga aggcncagcc ccattnaaca 540
agcacgggtt acaaaaagga tggccnccgg aacttttttt n 581

<210> 6288

<211> 561

<212> DNA

<213> Homo sapiens

<400> 6288

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ccgcctcccg ggttcaattg attctcctgc ctcagcctcc agagtagctg ggactacagg 120
cgcccgccac cacgcccggc taatTTTTTg tatttttagt agagacgggg tttcacctg 180
ttagccaaga tggctctggat ctctgacgt cgtgagccgc ccgcctcggc ctcccaaagt 240
gctgcgatta caggcgtgag ccaccgcgtc cggccaataa atggtttcta attaaaggat 300
tgtgacattt aatagccgtt gcttgctctt gtcttgctcc cttctctctc gaaacttggt 360
aagaaataac tcaatattct ggcttgggta aagtaaataa aatgctattg gatattttgg 420
tcattgaat tgataagact tttcaagtaa aagttgcttt ttanggtagn atcttcatgg 480
ccttgagaaa gttgcttggc tctctttgga ccaanttggc actggcnttn ttaccggaca 540
aatttggngc tttanaattt a 561

<210> 6289

<211> 567

<212> DNA

<213> Homo sapiens

<400> 6289

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caagctccgc ctcacaggtt catgccattc tctgcctca gcatctgggg tagctgggac 120

tacaggcgcc agccaccatg cccagctaatt tttttgtatt tttagtagag acagggattc 180
 accctgttag ccaggaaagt ctcgatctcc tgaccccgtg atctgcctgc ctcggcctcc 240
 caaagtgctg ggattatagg catgagcctc cgtgcctggc ctcatatccc ttttaaaaat 300
 tactatgata tatccctttt aaaaagtact aactgaaaaa agtactatct ctttaaaaag 360
 tactggctca aaaaaataat agaaaataag aaacaaaaaa caggctgaga aaagtgggct 420
 cacatctgtt ggccatgctg gtttcaaact cctggacctc aagtgacat gggccttggg 480
 ctccgacntg ctnggaatac anggngaag cccaaaactg ggcccatcct tttaacataa 540
 acncttgaag ggnaataaag gcttgac 567

<210> 6290

<211> 537

<212> DNA

<213> Homo sapiens

<400> 6290

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 agtgctcgag gcattttcac agcaatcctg tattaatgcc catcgactgg ctttcttttg 180
 gggcattgcc ttcttgcttt gcttttctat ctagtaatcg gaggacaaag gacagaagct 240
 gggcagtgga tgagtagatt gaatgggaaa tcctttaagc tggccaaaga ggtcactgtg 300
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 gaccatcca ctgcatagaa ggcgcagccc tgcttgactt ttttcaaagc tggctggact 420
 tacatggatg tcagacctgc agtgagccag atttgctttc ctgggattga agtggaaaac 480
 ctgacccaag ggcnntnact gggaaanngg ctttcangga ttntacctt ggggaat 537

<210> 6291

<211> 558

<212> DNA

<213> Homo sapiens

<400> 6291

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agctggaaat caagtacttt attcctctgc taggattaag taaccattcc cacctgggtcc 180
acttcttgac caattttcta aagtggagtc agtctgtctc tattgctctt tctctaattgt 240
ggacttttaa atcaaagttt aggtttaaag agatagatta gaaaacatac atttaacaca 300
cacatacaca aacacaaagt tggaaagcaa gagagcttct tcagtcaagt agaccactt 360
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atgtattata aaaacaatgg gaaagaatat tagaaatgag aactattcca ngaaatctag 480
accgatactt taataanaag ccttcaaan ccataccccg attnccgaac ntttggggaa 540
cagtaaancc tcttaatn 558

<210> 6292

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6292

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attacaagga agttgtgaac actaatttct taggagggtga ggccagcccc acatgaactt 180
ctcttgcatc cctctgggtcc accatgacac ataaatactt agactttttt ttttctctta 240
atgaatcatt agacattaaa aacggaataa cagagtcaca aagggccaca tgcttttcgg 300
tataaagcat tctccttctc taggttgcta tcacagtgca gacctgactg cctgaatatg 360
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agcatcagnt tcacttgagc attttccatg anaggcctgt taaatgcctg nctttggcct 540
ttcaaccttc aaaattaaaa attnnatnna 570

<210> 6293

<211> 586

<212> DNA

<213> Homo sapiens

<400> 6293

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gacagggtct agctctgttg cacaggctgg agtgcagtgg tgcaatatca gctcactgaa   60
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ttccacaaca ccagctaat ttttgtatct ttagtggaga caaggtttca ccatgttggc  180
caggctggac ttgaactcct gaccttaagt gatccgcctg ccttggcctc ccaaagtgt  240
gagattacag gcctcagcca ccgtgcctgg ccctatcctt tcctctgaag attccatttt  300
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gtaaattgag aaggtgattt tcacaaaatg cattctgcct tggtccttct aaaaatcgag  420
tttttgaaa ctgctgtttc taacaagata acatccaaca gaagctacta atttcctttc  480
aaaccttagc ttntggaaat gtaagagata ttaccnggaa atgaatgggt cttggccaat  540
ggatgtaaac tccgagaaac tntnngggna agtaaaaggg ggncaa                    586
    
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<210> 6294

<211> 586

<212> DNA

<213> Homo sapiens

<400> 6294

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gcccttccaa aaactgcttg ttaagtttca ggtacacaat taacctgccc aattaatttc   60
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agagtaatgc acagatgatt gccaagacca tattgacaaa ttgtgattag attataacgc  180
atagtagcct gccttacatt cagcaagttc aaacaggaca caaaaccagt caactgaaca  240
cagagcagct ctcttcagaa gcacttccaa tgagtgtatgc agagatttca aaaatacaaa  300
    
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gcaggcaact tatatacagc aaatcctcac actgcctgga catgtgccac ttttttggtg 360
gttttaatat atttttcctt tctgngtgcc aatttagact gaattcttaa ngatttatct 420
tggatgactt agaaaaatcc cctgnccttt cttactttgg ttcaagnagg accagncatg 480
aaaattgagt naggcctctt aaaaaatgga aggtcncaga tcccatgggg gaaggtttan 540
gaancccttn ccaggtaatg gatcccggga atnttaacag gttaan 586

<210> 6295

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6295

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aaacttatgt ttttccattt ttcctgttcc ttgaacatga atctactacc aactcagaaa 120
gatttaagat aggtaattac taaacactct ttacctcccc ttgcaaaaaa cagaggcaag 180
tttcccattt tacttatgat aaaccagatt attttcagtt atgaatattg gcaactgcat 240
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aaaccccaaa gaaaataaga taaaaacaac aagagaaaaa caagaaaaca taaaacaata 360
taagaaaatg ccagatatatt acagcctcca tctgaaatgt gacttgngtt ctactttcag 420
cataaaacaa aaccagagaa catttcttgg aagggtatca cagatgaagc tggtgccagc 480
cagttttggg ggagacattc attctaagaa gggagaaaacg cncagntagc acttgctggg 540
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<210> 6296

<211> 582

<212> DNA

<213> Homo sapiens

<400> 6296

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 tgatttgagt gtcagggaaa ctattataca ttccgggtga ctcttacaag ttcccaaaaa 180
 tcaaatccac ataggacaag aattttcacc actgagaata tgcagaagaa tgtaggacaa 240
 ttctcagagt aactcacaag aagtattcaa atatgattaa tgcaatggca cattgttgaa 300
 acatacgtat ttggatatat aaatctcacg tgcttggtta agttataggc acaatgtatg 360
 agcttcatt tgtaatcttc aaaagagata ctcatgagag gaaaggcaat cagaaagang 420
 gaggattagt aatgggtataa aacttcatga atgnactaaa acccctggac tgtcacttta 480
 atgggcaaat ttatggatgt acatatcttc aataaaccta atttttttta aagaagggga 540
 gattgtaacc taaaagaagt gncttggaang anggaggnt tt 582

<210> 6297

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6297

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 actttttcta ccagatttta atactgagta tgaacatcac atgtagtttc ttttcgcttt 180
 cagtcactta aactgtatcc cagactcttg tccatcaaaa aaaactcaat catctttcat 240
 tcttttttta aaaaaaggac acttttaatc tttattggta actttttctt attgtagcaa 300
 aagtgcataa tattacattt accatcttgc ccattttgta ttgtacagtt cagtagtgct 360
 acctgtattc accctgttgt gcaatggatc tccaaaactt ttacatcttg caaaactgaa 420
 atgctggtat ccattaaaca atttcccttt tccccatcc ctcatctctt ggcagccaca 480
 atcttattct ggctctatga atngctactt aaagnacctc atcnggtaga atgatncatt 540
 tggatttttg gggctggctt aatcacttan caaca 575

<210> 6298

<211> 579

<212> DNA

<213> Homo sapiens

<400> 6298

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gactactggc acatgccacc atgctcagct aattttttaa tttttttgt agagacgggg 180
tctcgttatg ttgcccagg tggtctcaaa ctctggcct caagcgatcc tcctgcctca 240
gcctcccaaa gcgttgagat tagaggcttg agccaccatg cccagcctat tcactctttc 300
tttagaaatg tgaagtgacc cctgaaaaac ctggaggaag aaggaaaagg aaggatcctg 360
gataattatc taccctgtgg gaagccattt taactatact gcattaagac attcattgct 420
tctggcactt tcttactggc tcctaacttt ggttcatggt tccaaaggca ttttaataatt 480
cttttntaa tttcaaaggc tgtgggggtt naagaataaa ttatcaagcc tactgncaca 540
ccaccaacct nggacttanc aatggncct gaangttgg 579
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<210> 6299

<211> 584

<212> DNA

<213> Homo sapiens

<400> 6299

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taaaatattc agaagaaagt caaagttatc tgcaattaca tgttagaaca gattttgcag 180
gttaaaaaga tgttgcttaa atatattcat aagcctgttg taagattttc acttatgcag 240
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cgtttattga agatttgttg ctccccagc cctgtttgcc tgcatcaggc taacaacctc 420
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attcctccca tagagcctgg ccaaatacaca ggctttctgc tgtaggcact cattgagctt 480
gctgccgccg ttgncctttc ctttcctttc ccggnittgn ggggggcctt tggaaatggg 540
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<210> 6300

<211> 571

<212> DNA

<213> Homo sapiens

<400> 6300

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gcaatcgaaa tgttttccta tctgaacccc tggtgccagc acagtataca gtagacaata 180
tatgccataa ttattgcct gaactcccca ttgatgtgac catgatatgt caatggaaag 240
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ctcccagaac gtggatatag caaacaacac tatgtacat ccatgaaaaa acttacaatc 360
cagtaggaga aaaagacaag taaacaagca gttattgtag agcataataa gaaataaatg 420
aaaactgcca tatgggcatt ttagttggta cagtcaatgc caaatagaga gagcagtanc 480
agtttcctga aaaagtgatg gctanggtga gacctaaatg ccggtaggaa ttnaactggg 540
gnaaatgttg gaagcngcnc actttangga c 571

<210> 6301

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6301

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caaccttcac ctctgggtt cgggtagttc ttccgcctcg gcctccagag tggctgggag 120

tgcaggtgca tgccaccaca cctggctggt ttttgtatTT ttggtagaga tggagtttca 180
 ccgtgttggc cgggatggtc ttgaactcct gacctcaagt gatccactga cctcagcctc 240
 ccaaagtgct gggattacat gtgtaagcca ctacgcccat cctccatcat taaacttttt 300
 aatgtgaaat tctatcatgt accattaacc taacaagatt ttctttccta tttctgactg 360
 gtgcctttcc ccttttcagg agcaatgaaa gctactctgt tagttatgtt cttctgatgt 420
 gacaaaatgt caagaagata ggagaagaga atatTTtTgt ttgntgatgc ttttggtccc 480
 aagtgtgacc ctaaacttaa gctttgtagg aactgaggtc tctcatgncc ctttccttta 540
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<210> 6302

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6302

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 tacacatgtg ccatgggtgg ttgctgcccc catcaaccca taatctacat taggtatttc 120
 tcttaatgct atcaattccc ttgcctctca cccccgaca ggccctgggtg tgtgatgttc 180
 cccccactgt gcccgatatgt tctcattgtt caactcccac ttatgagtga gaacatgcgg 240
 tgtttggttt tctgttcctg tgtagtttg ctgagaataa tggtttccag cttcatccat 300
 gtccctgcaa aggacatgaa ctcatctttt tttatggctg catagtattc catgggtgtt 360
 atgtgccata ttttctttat cccgtctatc attgatgggc atttgggttg gttccaagtc 420
 tttgntattg ngaataagtg ctgcaataaa catatgtatg catgngtctt tatagtagaa 480
 tgatttttaa acctttgggg aaaggccctt ggaaaagggg acttttgggc cagcaatcca 540
 agcngtgana aaagtgagcc atgcnnaccc tttgggaaaa a 581

<210> 6303

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6303

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gct cat caag ttt cag attt tga agc attt agg att tttg att ttc agat tgg ggt gct 120
caac ct gcat tcatt tttt ct taaa actaca ttt aaatatt ttag tacatc acag tttatt 180
ataaa ataac ctt gagtatt tgt ctacatc ctt gaggta ttac accagt ttt caactaa 240
gaa atcagca gga atagaaa cact gcacac aaa acctaca aaac ct ccta tca acaggga 300
agag tgaaca aga atgtatc ctgt ctgcac aggg acagtc ggcat gaaaa atat agcaag 360
tcaa agggct ggca agatgg ctga atagga acag ctctgg tct gcagctc ccag caagat 420
caat gcagaa ggt ggggtgat tct gcatctt caact gaggg tcct agctca tct cattagg 480
act gggtaga cagt ggggtgc aganc acgga ggg ccagcag aanc nnggt tgg ccgtcgc 540
ctcat ccggg aagt ccanga gccc gggaac ttc ctccct acc 583

<210> 6304

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6304

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acag atgcac gcc accaggc ctag ctaatt ttt gtat ttt cag tagagac aggg tttcac 180
cat attgacc agg ct ggtct cca actcctg acct cgtgat ccg ccaacct cgg ccctccca 240
aagt gctggg att acaggcg tgag ccacca gacc cggccc tta agtggtc ttt atgtgag 300
tatta actgt ata actgcac ctt cctgtgt ttt ttttaac at ttt tcaaa aata agatgg 360
agaaaaaaag taggc attga aatt gcgtga gag actgcct gcc atgtaag agtt tagcaa 420
aat gcctgga ctgc agaattg tgct caaata acgg taacaa att actcaa aacaa attac 480
taa attagtt atgg gcccta ttt ttcangg act tntggct tcag anttct agta aggttt 540

tnacaactgc agaagttgta agtgaanatt tcaggatggn t

581

<210> 6305

<211> 474

<212> DNA

<213> Homo sapiens

<400> 6305

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atacatgtgc catgttgggtg tgctgcaccc gttaactcgt catttacatt aggtatatct	120
cctaattgcta tccctccctt cccccccac cccacgacag gccccagtgt gtgatgttcc	180
ccaccctgtg tcctgggtgtt ctcattgttc agttcccacc tatgagttag aacatgcagt	240
gtttggtttt ctgnccttgt gatagntttc tcagaatgat ggnttcacgc ttcattccatg	300
tccctacaaa agacatgaac tcctcctttn ttttggctgc atagnattcc atggtgtata	360
tgtgccacat tttcttaatc cagtcgatca ttgattnggg ttggttccaa gtcttngcta	420
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<210> 6306

<211> 565

<212> DNA

<213> Homo sapiens

<400> 6306

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gcaatttcac tgaaaggaag aaactacaga atgcacgggt tcagaaagct attttaagtt	120
atttacaat aaagtatcta aaactcaaaa acaggctctg tatgctatat ctagtttata	180
ccttcccgaa caaaatttct gttatttggg caaattctta aaccatgggt taaaccgtaa	240
tggttacaaa ccacaaacac atccatccag agactgaaac cgtttctatc cggtcagtgg	300
caaaactgtt gaaagggcaa tagttgaagc tggttgggtt tatatagtgt gaactctgat	360

aaatattcct accaggacta aaacacagca cgctttgcgg gcatggctga ctcacaaagg 420
 ttgtaacaaa caagaactac tcttactcg acaccatggc tcaaaggcca ccgagaagca 480
 cgagtgactg acagcttctc tgnttacaaa cgaatggaac cccaagngga tggcgggtta 540
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<210> 6307

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6307

agctaagag aaatgccaca cagtgtcttc aatattgttt acaactgcaa attgccttca 60
 tgaaaataat ttaattgctc ctgagaggcc tgatagatgt ccctgaattc tgtccagcca 120
 tgccatgact gacagaacag agaaaccagg aaaagggtcac acacggtttg agaaaccatc 180
 aaaatgtggt gtccatctcc tggccaagac aggaatttac agcaccattg tgggtgttcaa 240
 aaactgtcag aaaccttagg aattgtcaca gttaccacaa ctacacattc cagcaaagag 300
 gaatggaaga cagaggcaac atgaaccagg agggtagaag gtctgtcccc cagcactgaa 360
 gcaggcacia aggcataacg tgaaacactc atggagaata aacaaacagt ttaaattgca 420
 caattaaact ataaaattca aactgactg caaactggct tttaaaatgt gtagacctat 480
 caccctacta tggnttatct cttttaccaa aaatctgnca ggttcaacta ttttggtaca 540
 tangnatttc ttccttttg naggcagact taactatitt nta 583

<210> 6308

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6308

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acctctccct cctgggttca agcaattctc ctgcctcagc ctccctagta tctaggatta 120
 caggtgccca ccacccgccc ggctaatttt tttttttatt tttagtagag atagggtttc 180
 gccatgttgg ccaggctggg cttaaactcc tgacctcaag tggtcctaac acctcggcct 240
 cccaaagtgc tgggatttca ggtgtgagcc accacacctg acctcattta cctatttggg 300
 aacaataaga aaatagctac ccccaaatta gtgccgtatt gacagtaagt tatgtgcaaa 360
 taatattctt taaaagatta agatgtgaat gtgcttacat acaataggag aggtcatcca 420
 cgattactca atgtatactt taagttggaa aatcacaata ctgatgaaat aattccatga 480
 tatagattat catTTTTTaca ttcattgnaa aaattaagaa caggtcaaga agcttaaagc 540
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<210> 6309

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6309

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 ggtttcctca atgagggatc ggtcagtcct attggcaaga ctctttttcc agctagtaca 120
 agatgctagc tcttttccta gctgacaatt gacagtatct ataaaccttc caggccattt 180
 aactctcaat gagtaatgct atgtaacaaa tggtttatca tacatgtttc catacaatga 240
 atttcaataa ttaaaatgta aaatgaatat ttggaatgcg actttgcata atgcgtgcac 300
 actgactcaa aattacaccg aacaactaaa acagatttat tgttctacgg tgatttactt 360
 ggtcatgtca gattagtaat atggatctgt ttaaaaacac aaaaattaag acaagcagga 420
 taaattaatc aacttacaat atggtctcat actgcaatca aatccggcaa ataacagtag 480
 aaaatcttgg ntcacagaat ctctttaaac tgnTTTTatg cataaattaa anccttaagg 540
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<210> 6310

<211> 592

<212> DNA

<213> Homo sapiens

<400> 6310

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tttggttatg tcatttcggg ataattttat cagttgtgag agtttaacaa taaagaacat  120
aaaacttgct gtttcataaa aatatgaaat tttcctggag aaattttgac ttaataaagg  180
aacaagaac tcagtttgta gtgaataaaa ttttacattc acttccccac tttctcatag  240
aagatctaca gttggggata accgataaga ggcaattggt ttctggctta agagcctttt  300
tcattaggaa ttttcggtaa attaaagtct gaaattagaa aaacattaga cattaatcaa  360
cagaccaaca ccagtcacgt aaataaatgg cattcgtata atttggcagc tgaaattctt  420
aaataatctg gcaggtaaca ggagagaaag aggaaaaatg aaccgttcat cattctcact  480
gcggtctcac cgtttncctt cacaccccat tacagcgaat ggaagagaaa ggaccatcgt  540
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<210> 6311

<211> 589

<212> DNA

<213> Homo sapiens

<400> 6311

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tgcagtcact acaccactcc cgggcttgta acccatcaca gcctggactc ctttggtcaa  120
agccctcaca ttctcttgat ggaaaaaagt ttigtcaacg atattttcaa tctgctttgc  180
ttttttatct ctgcctagct gcatttttat ttcatcactg ttcattttgt tctctaggag  240
tcgctggtgt tgatgctgaa aagttacagg atctcttcca ggaggaggat ggcagtacag  300
cagcttacca ctgacatagt ccttcaggat gtagcgcgca gatcgaggct ggtctggctg  360
tccatgcgct gtcattgaat ctgcgatgtc tgtggagaga aaagaatttt gcaaaatctt  420
agatgacaga atatcacaa aaagacaact gaggtgatgt agcttctatt actaagcatt  480

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cttactcttg gattttaaaa aattangnat cantggagaa tatatattgg ttaacattaa 540
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<210> 6312

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6312

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aagggtctcg gataacggga tggggcctcg aggggtccctg tggggctcgt gggtcccagg 180
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cggagcgaac ggccccgcaa gtggtcttgc gcttgaaacc tgcgcaagct cgggcctctt 480
cttgttgceg ttngcttacc aaccgatgcc ccgccggcca acggtactt ttgcttntga 540
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<210> 6313

<211> 555

<212> DNA

<213> Homo sapiens

<400> 6313

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atgaatcctc acaacacccc cgtgaggtag gtaggcaagt attattctcc cattttacag 120
atggggaaac tgaggcagag aggtgatgtg atcagccagn ggtcccaaca cagctgaaag 180

tcagagccaa ccatgagaac acaaaggatc cctccccatt cagtcccatc tctgactccg 240
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 atatcatgac caatgacaca tccttttttt tttttcctgc anaagtncac gaggctacca 480
 aagacaggtt ttcttggtccc agggagccaa ccanggngga cagcttctta atggttnactc 540
 cngggttnag aaggc 555

<210> 6314

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6314

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 cctccacctc ccaggctcaa gtgattctcc tgccttagcc tcctgagtag ctgggactac 120
 aggtgtgggc caccatgccc agctaatttt tgtattttta gtagagacgg ggtttcgcca 180
 tgttgcccag gctggctctc aactcctgac ctcaggatgat ctgcctgcgt cagtttccca 240
 aagtgcctggg attacaggcg tgagccaccg taccgggcca agatgtttta attacacatt 300
 tgcataaaga gtaattggat tgcaaagctg aatgccttca aatataacat attttactgt 360
 tatgcaaaag ttaccatggt attcctaagt gataagccag aggaaaggaa ggtgtttctt 420
 ccttctggca aaaatatccc atagttaagt ccaggaacaa atggctgaaa acagaaggca 480
 atgaccatgg acaccttttg gatcctaata ccttttagtaa agacncagtt aaacagtcca 540
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<210> 6315

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6315

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 tacaggtgcc tgccactgtg cccagctaaa ttttgtattt ttagtagaga tggggtttca 180
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 caaattctct accagcttcc tacaaaattt gtatggcatc aatgggtaca catactacca 360
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 cattgactat atttatgaat tcatacatga tcattcttca actaagtatg aactaactcc 480
 tggattcttg gtctagttag ggcttaagaa attatttcct tctaaatcca agggactgct 540
 aatcagtana acctttgtgg aaactaactt ccaanatgcc ggggggn 587

<210> 6316

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6316

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 aaaacctata tacaagcatg tgtgtagctc gaaataaaaa taaaaggact atttcatgtc 180
 atgactgctt gttggcttcc tcttcatatg cattccctgt gccattctgt acataggatg 240
 aaccagaacc aaggccatac aaatgaccac aatatttggc atcatcaata tgatcttcaa 300
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 gatgttgtgg tcctatccgt tccagctcta actgttctgc cacctcctgt aatccacctt 420
 tgagattttt gcagctcttc atgaggnact tcacatcata aatgacagga aaaaacaatc 480
 gaaggatctc aaagaagcaa gtcttcttan gcaagntaaa attgggtang aatttgatta 540
 agnacccaag tennanccgt tttaaaggcc acctttg 578

<210> 6317

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6317

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ctttacatga aataatcatt taaccctcat tcgatcattt aatatctaata aaggtagcta  120
gatatagaca aggaaatgtg ttagtaactt gcccaagatc acaggtgggtg aaggtagtat  180
tcaaaacttc agacctcaag ttcttaataga ctacagtaga tagaaacatg ggaaagtact  240
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aatatgtgtg tgtgggcaag gacagaagat gagctataca aatgaacaca gatgttatag  360
tggtgtggga tggttatgag tgaaacagtt ctctaattgt gntaatatat tttaagaaaa  420
aatTTTTtaga agtcatgaat tcacaaataa ctcttctacc attactatta ttattctgnt  480
ttcaaccatt ggacaccaag gtgngnggng ggttncataa ctcccgnga cacagttant  540
gggctccttt a                                                              551
    
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<210> 6318

<211> 534

<212> DNA

<213> Homo sapiens

<400> 6318

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cgcacgcagc cgccggagtt tccaaactgc gatcccttct cacccaaaga aacaagggga  180
gtatgatcca tgatcaacaa catgctaaag ttaacaaga aaatggtaca aaatagaaat  240
tattaccata catgtccagc atgcaggatt aatattttta atgcagattt ttgtatttt  300
    
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tctatataat cgagcaggca ataaaactga tgagatttgg gcgccgagcg tcctaactga 360
 ggcctgtgtc tcagggctga gagccagtgt tctccgaact ctgacagaca ggtccgtctg 420
 tccttccttc tttcgctcaa gctcgctntn gcctgccggg acgccagaag tccctcttct 480
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<210> 6319

<211> 512

<212> DNA

<213> Homo sapiens

<400> 6319

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 cactgcaacc tccacctccc gagttcaagc aattccccctc cctcagtctc ccaagtagct 120
 gggattacag tcgcgcgcca ccacaccngg ctaatttttt tttttaagt anagacaggg 180
 tttcaccacg ctggccaggc tggngaaaac tcccaacctc aggggatcca cccacctcag 240
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 ttttttttaa agttttgnga aacactaaca gggtttgaaa nagggcattt tccaaaacaa 360
 attactatat tataatgnngg aatcattaac ttttcatatg ataaaagggg gatgaaatca 420
 ctaangactt aatagaaagg ttaattgggc ngaatccggn taaaatangg ggtaaaccct 480
 actnnggcac tggctgggggt accttgggcc ca 512

<210> 6320

<211> 530

<212> DNA

<213> Homo sapiens

<400> 6320

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ccagccctgt gcacganaag tcacgccatg cccacagcc tccagtcctg gctgctggtg 180
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 gagtcagggc tctcggagtc gtcaattcag caagaaagcc cctggcccgc accttcaaac 420
 tggaagnggg tggctagggt gccggangca nangcccaaa aagggttaag cacaatcctg 480
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<210> 6321

<211> 516

<212> DNA

<213> Homo sapiens

<400> 6321

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 aaaacaatag caaaagcaaa aaattatact aacagctggc atatatgatt ttatctgcta 420
 atttactttg ggacaatggc aggggttaaaa gcttgcntag aactccaatc ngctccttta 480
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<210> 6322

<211> 598

<212> DNA

<213> Homo sapiens

<400> 6322

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 gtcaaagggg gttgttctct tgcgggtagg ggtgggggtc ccaagggtgct cagtggggga 180
 ggttctgagc caggagaagg aatttcacaa ggtaaatcgc tcagttaagg tggggcagaa 240
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 gatggttttag cttgggctca gaggcctgac aataagcatg tagttaaggc tgtagttcta 420
 ttaatgccat atttggtgta cttcgcaatt cataaaaata ggttttcaat aaatttgaac 480
 atacatactc acttgaaaaa agatncttgt aaaaatggct ataaaatatg ggtaatgggtg 540
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<210> 6323

<211> 594

<212> DNA

<213> Homo sapiens

<400> 6323

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 cagggtgcct ggtttatgac agggattgat atgaggcagg gctgccaggt gtctggtctg 180
 ggagaggccc acctaccccc acttctcata gtaacttttag ggaaattgaa aggaaacata 240
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 aatttgtgca aagtcttgga agttccatac tcctctggct gccgggataa ttccaggttt 480
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<210> 6324

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6324

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acagcagaca ctcacaacaa gccacagtca tggggtggtc aaaactceca atctccattt  180
tcatgcaaag ctgaatgggc agctcagacc tttaaaaagt gtcatgaaca cataggtcct  240
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cctacactgt gtggagtgag gggctgccag agccacacgg ttagccttc tgtccccac  360
ggaggcatgg gtgagaggag agacacaaga cagagaggaa gactgccatc angcttgcg  420
aatgagctt gagggtttat ggtttgaggn tgcaaagaaa gaagaaaaat aaggaanatg  480
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aggcaccng aagggtttcc ggangg                                     566
    
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<210> 6325

<211> 599

<212> DNA

<213> Homo sapiens

<400> 6325

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acaacctttt ccaaagacag agctgccggg agtgtgttta ggacacacac ctcgtacagc  180
cgcacttcac cactttctca acctcgtcca caaaggagga gccgtcagtg cattcgaaag  240
agtatttccg ccgcttgctc ctcagcggtc cacagcactg ccctcctgca caccacctc  300
tgcactctaa tcgggacacc ttcttggttg tttggcaagc agcatagccc tgctgctttt  360
    
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ggtaataatc tcttatcctt tcccctcgac aagagatttc tcgatcacag ctgtcccccg 420
tgtatccact gctgcattca cagtagggct gccccagacc tgaaagcctg cacttcccat 480
gcttgcactt gatcgccctgg catgggttaa acagatcctc ctcttcatca cagaggacac 540
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<210> 6326

<211> 585

<212> DNA

<213> Homo sapiens

<400> 6326

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catgacaggg taattcatgt ccaacatatc aaaaacatat ttatagataa ctttagaaag 180
aaaatacata ctttttttga taatcacaag tagcaatgag attttctata ttattttcag 240
tctcacttta naaatgtttt aattgnctaa atttaaatcaa ttcacatgatt aaaggaaaga 300
caataaaaata gtaaaattac atgtgtttat atataagtgt gtgtgtttca aataacaaaa 360
cgcaggttgt aaactaaaat cactggaagg caaattgaag acaaaagtga tgctggttta 420
agttgtttgg ttcttcacat aaattccagt ttccaagttg ngttttacaa ctctagtaat 480
atccagatng ataattcaac ctgcactttt ttcttctatt cctggtttct ctttggtcacc 540
cggaattttt ggcttttact ggaactgggt aataaaatag gactt 585

<210> 6327

<211> 593

<212> DNA

<213> Homo sapiens

<400> 6327

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tttacatcaa caaacacagc agtttgacta ttgaaatcat aagcgattta tcttgaaaag 120
 gttatatttg taggtggatg caagtatatt ggagaaatat ttctatcaaa atcactgggt 180
 ttgttaggag tattttgatt tttctatatt tacgctggga aaaaaattaa aacaagtatg 240
 tcagtgttca ttttatggga tagttggctt cactgtgttt gtcagtgttg tccgaattac 300
 agctgtttat cttgcaactt taagattaat taaatgcaaa tgtaactctg tgaatcatgg 360
 gaatacctgc cagacctctt attaatacct tcaactaaaa cccctgtgc ctgagagtca 420
 ttaatttgct aaaagaaaag tgctaaagca gccctttgcc cacaacaat tctgcgatgg 480
 ctgccaatt aatcccaaag catctgatcc tccttcangc ctcngngncc tttgaggcnc 540
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<210> 6328

<211> 593

<212> DNA

<213> Homo sapiens

<400> 6328

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 tcaggagatc aaaaccatcc tggctaacac ggtgaaaccc tgtatctact aaaaatacaa 180
 aaaattagcc aggtgtgggtg gcgggtgcct gtagtcccag ctactcggga ggctgaggca 240
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 tccagcctgg gcgacagagc gagactccat ctcaaaaaac gcgtacagca aaaaagggtg 360
 ccgttacata ggtcattgga tgctatcact ggaatgtctg ttgagaaata aacgttttac 420
 catctgtaga cacatgaggg cgctttaagc aggcagcgtg ggatgcancg tncnaagga 480
 aggaaggagg aagaaagctt tgtcaaaagn agcctgaaat tcagcctntt cctatctggt 540
 tgcgacctgt gcctgcntcg ggtggggggc acccaatcaa ttaagaaaaa aat 593

<210> 6329

<211> 584

<212> DNA

<213> Homo sapiens

<400> 6329

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acacctggct aatcttttaa tttttggaca cggttttgct gtattgcca agacggtctt 180
gaactcttgg cttcaagtga tccccttgcc ttggcttccc aaagtgtggg attacaggtg 240
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tgagggtgcat gggcccatgc tacacggccc aactcaggag taggacaagg tgtggcagcc 480
atgcccttgc ctctacaga caaagagtga ccaccccacc caatttcctg gcacacgctt 540
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<210> 6330

<211> 594

<212> DNA

<213> Homo sapiens

<400> 6330

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tttttgagcc actggaaaag tgaactttct cacagaaata tttaatgttg tcaaaagaat 120
actctgtttt aacaataact ccattaattt attactttta aagatgcaca gtgctgcttt 180
tacacattaa aatttcagtg acatcaacaa cataactata tgtaaatatt ttgaactaac 240
atttcaaatg tagactgacc acatgtttga tttaaagctt aaagaatcaa tgttcccttt 300
tgtgaagatg gcttttgttg tcattagatt ctactgattt tttaggaata gagctgctcc 360
acactgaatc cactggctct gggtgcccc acatggaaca tcaatattgg taaccacacg 420
atccctttca gcacttgtgt aaacaggcaa agagatgcac tcatccggag aatatggacc 480

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acgtgcatcc tgtggaatcc agcccataaa acaagggaca ctgatgaccc ctggggagaat 540
caagcttgat ttcanaaagt ggattncatc aaactacatc ctttagtacc aagc 594

<210> 6331

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6331

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gtttaaagtt ctgacaagcc acttttgcca tcaacatcac tattattatt gccattattc 180
ttaaattaga aatatatttaa tcctttttac tgctattact ctgatgatat gccaaaggtc 240
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taaaccagct taacaaagtt gttctattta atccaatata tactggctga acaactcaaa 360
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catggaaacc tgggtgtttcc agacagtaag ggctccagag gttatctgag aagcccggaa 480
atttaaatat gcattttctt ganacccttg gtaccccacc ctactttaat ggtaaaagaa 540
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<210> 6332

<211> 590

<212> DNA

<213> Homo sapiens

<400> 6332

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caaattgtaa tgtttacaaa tctcaacttt taatcatggc aaagtggaca ttcacaacag 180

cttcagaaga gaaaagaaaa tcagtgatat aacaaacatt taagtatcat ttacggcagc 240
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 tcattccata agcctaggag aaaagtataa aacctaaaat tacctatgtc ttaaacaata 360
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<210> 6333

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6333

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 aaggatctaa actttttaag ttttaaaatt taaaaatcac ctgctttaat tgccgtaatt 180
 caaagtcaga agaacaaaga agaattctga tccaagaagc tccaattatt gaaagctcag 240
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 cttctttcct gctttagggc tatcacagcc caattctatg tggaaaatcc cttgctcttc 480
 ctctaattct cggtncatg gtctgacatc tatttccttt atcttctctg gcagnctatt 540
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<210> 6334

<211> 540

<212> DNA

<213> Homo sapiens

<400> 6334

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 aggggaaatc cttgatgacc tggatctttt ccatgttgcn agtggcggnt tntntcgtgt 480
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<210> 6335

<211> 553

<212> DNA

<213> Homo sapiens

<400> 6335

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 tacaggcaca tgccaccatg cccagctaata ggctaatttt tttgtatttt ttgtagagac 180
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 cttcccccaa acctntcagg tgctcaaagc ctggatcccc aagttctgct gcctnctnac 480
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<210> 6336

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6336

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ctttcacana aaggattatt tacagtttat gtagatataa agctcactgt tgcatataca  180
aatgtanatg tgcanaggca atatatacca aaacgggtat actgacaagc gatagataatg  240
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aatttccaaa tacaaaacat ggattattca aagnggattt ttcctataca tatatataat  360
tctgctgcaa acagnggatc aaaaagcaga agtgttctta gcatgattca tctttgaaaa  420
cccatagaac tattcataaa tccaattagt tctattaaac atattaactg nattggttaa  480
cttatcangt ttttgacata gagaaatttg gttgcaggtt atagaaantt ttcctccan  540
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<210> 6337

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6337

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ctctagacct acgttcccca acatggtaag catcagccac atatggctaa atttaaata  180
attaaaatta aataaagtta aaaacacagt ttcttagcca cattaaccac atttcagatg  240
ctcggcagcc acataggacc acgtgtactc tacaggacag cgcagacatt tccatcttcc  300
actgcagaca gttctaccgg acagtgtgct tctggactca tttggttttg cttttttaaa  360

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attgcatttt cagacatttt tataactttt tgaaatgtta aatgactgct ccacagagtt 420
 attcatttga tggtcacacc tactcaatcc cagaaccaag catttttagtg taattgcaga 480
 aatgctctga accaatcaac ctattggcct atttgggcaa attaggaaga aaaaaactat 540
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<210> 6338

<211> 593

<212> DNA

<213> Homo sapiens

<400> 6338

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 aaaggtacag agaataagagt ccaaatgaag tctccaaatg acaatatgcc agagaacacc 180
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<210> 6339

<211> 579

<212> DNA

<213> Homo sapiens

<400> 6339

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gcattcacag gactgaaaaa taatataaat aggattccta cagtaaaca gtattgtttc 180
tgtttcaaaa ccatcctgca agcataaca tcagctggtc ctaaagcctg taatacgtac 240
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tcttaacagt ctatgcgtat gaacatttta ttctataata taacttttta tataaaaata 540
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<210> 6340

<211> 586

<212> DNA

<213> Homo sapiens

<400> 6340

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<210> 6341

<211> 596

<212> DNA

<213> Homo sapiens

<400> 6341

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tacagttgca ttttacaact tttataatcc tgaagagatt ctcttatttg gagttttttc  180
atgcattcag gtatttagca tgatgtctga tgtggtcagt aataaagggt gcaatgaagt  240
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ggaacatcag tattaggaac attaaatata tctctaagggt cgtttaattt gcttacaaat  360
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tactttaaca ttttactgt cattaaaaga gcagcaaaaa tgtgaaggaa aactaaacat  480
tctgcctagc ttctaacaat agcctaactt ctaaagctgg cattaatatg taaagagtgg  540
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<210> 6342

<211> 594

<212> DNA

<213> Homo sapiens

<400> 6342

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caacctccac cgcccgggtt ccagcgggtc tcttgactca gcctcctgag tagctgggat  120
cacaagcgtg cgccatgttc ggctaatttt tgtattttta gtagagatgg ggtttcacca  180
tgttggtcag gctgatcttg aactcctgac caccaggat ccactcgcct cggcctccca  240
aactgctgga attacaggcg tgagccaccg cgcccagcct aaaacgagat ttctatctcg  300
tttttcaaac ttataccaca aaattgccga gaaaatccca aaaaaggaaa caaacctag  360
aacaatagaa agtaagtctc aaccacaattc caggccaaat caatattaat gagcttcttc  420
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agcagtattc attggtttaa agctgaagnt aaaacttntt nattcttttt cgatggtaca 540
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<212> DNA

<213> Homo sapiens

<400> 6343

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<212> DNA

<213> Homo sapiens

<400> 6344

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<211> 602

<212> DNA

<213> Homo sapiens

<400> 6345

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<210> 6346

<211> 603

<212> DNA

<213> Homo sapiens

<400> 6346

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 actctactta atactagggt gtgttcctac agttagttaa aaaaccaacc agctggtagt 180
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<210> 6347

<211> 590

<212> DNA

<213> Homo sapiens

<400> 6347

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 ttagttaacc ctgagagtga ttactctaa atttgccga gcacactaga gacaaagaaa 480
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<210> 6348

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6348

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ctctcagtat ttagatgagg atagaacaga tacggngtaa cacgcctctc cactgcttac 180
tgtgtgtacc aagaaggcag aaagcagctc acccaagcct aacctggccc tgtctttttc 240
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gcagtggcaa gggggcaata cgtggagtca ggatggagga acactgggtg ccaagacagg 360
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ggatcactga aaagctgtgc caatgcatta gccatgaaac ctaagaaact tcagacatgt 480
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<210> 6349

<211> 594

<212> DNA

<213> Homo sapiens

<400> 6349

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tgcataactc accatgtgga cacagaatat cttcattaaa atttaatccc tcctcttctt 180
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gttctgcatt accatcttgc tcatccagct gttcaagagc tagctggcgc caactccgca 300
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cagttttata atcttcatit aagttgggtt ttcagacgca atatgcgaca acgttctact 420
acacattcct tacacanggg cttttacagt tagccttgga cctcctccat attactatag 480
gaaangcaac tggatatcag aaatcctctt cataatggaa atttaatccg ggngaaactt 540
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<210> 6350

<211> 190

<212> DNA

<213> Homo sapiens

<400> 6350

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cccaggtact aagcctagta tccaatatta tttttctga tcctctccct cctcccaccc 180
tgtgcaccct 190

<210> 6351

<211> 525

<212> DNA

<213> Homo sapiens

<400> 6351

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acaacctccg cctcccaggt tcaagcaatt ctctgcctc agcctcctga gtagctggga 120
ttacaggcat gcaccacat gcccggttaa ttttgtatit ttagtagana tggggtttct 180
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aggtagacaa tgcagataga tacagngatt ctcatccac acgtgaagaa actgattttc 420
agagactaat ttgcccaaag gncacacaac aaattaaggg anaagccaaa cttggaccca 480
tgnntttcaa gggncaggtt aanacntttt aacctggcct tttgg 525

<210> 6352

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6352

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tctatttcat ttggaaaggg gaagattccc aaatcaaact ggttttgatc ctttaagaaag 180
gcggcagagt taattcatgg caacatatgg ttagacaaaa tcctcagtaa gaatgccata 240
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gcaaggaatt gaaacagata agatagtttt tacagatact gtatacagat ttttttttcc 420
attcatgcaa cttttttctt aaaaaaagtt aaacatgtga agcccaaag cccaatacat 480
ttttttaaat attaactaaa ttttctgggg cctccttaca attggtacct tttccctngc 540
cataangggc tgggacaag 559

<210> 6353

<211> 535

<212> DNA

<213> Homo sapiens

<400> 6353

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tgcagcctca acctcccagg ctacagtgat cctttcacct cagcctcctg agtagctgga 120
 aaaacagaca tgtaccacca tgcctggcta atttttgtat gttttgtaga gatgggagtg 180
 tcaccatggt gccacaggctg gtcttgaact cctgggctca agcaatccat ccgcctcagc 240
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 tattataggc catcaatttc catacgactc ccacacagtg gtggnaacca aggtggnttg 480
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<210> 6354

<211> 558

<212> DNA

<213> Homo sapiens

<400> 6354

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 gatggcctgt caatcctggt tgcgatggc actgtgaagg cccctctgt gtccggcagg 180
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 ccactcccc caagcagggc ttgccccggg ggtggtgttc tttggncact ggccttatgg 480
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<210> 6355

<211> 534

<212> DNA

<213> Homo sapiens

<400> 6355

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cttacctttt tgcacagaaa tcttattgng aagtcaccat agagtcaata gctaaaattt  180
taagactttc tttggccttc tgatattaaa caaattatit acaaactgng atcagtaatt  240
cgnggatatt ggtaaaatga tncaattttt tgttggtgtt gttaagggtt ttccattaaa  300
aattgtaaaa caactttgta aggctgtaca gggctgtaaa ctactttgct aatataccat  360
gggatgcaga ggaaggaata atagaccttt tttttaaggc taaagttatc aatgttatag  420
atgcattcct taaaatcatt atgatttata cccaaaggga cctttncat taaatcccct  480
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<210> 6356

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6356

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aatgttaaca ctttcgtgtg tattcttcta cacttttcta tgttcatata aacatccaca  180
tgcatatata cacacacagg agtttttact ttttttaaaa atagaatcgt atacattatt  240
atgaaatfff ccttttttac aatatatacc atgaacatcc ccacaaatta gcaaaattct  300
agctccctca tccccagcca aatttactaa ctacacacatt tgtggtatca cccgtgattc  360
agtcatttat gtatttttct ttttttggtt ttccctttcc ctacaccctt gactccccca  420
taacctacct gcattacca ccttccttca agtcaatgca tactcttcta tacttttctt  480
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<210> 6357

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6357

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gcagcctccg tctctcccag gctcaagcaa ttctcctgcc tcagctttcc aagtagctgg  120
gattacagcc tgcaccacca caccagttg ttttttttgt attttttgta gagacagggt  180
ttcaccatgt tggccaggct ggtctcaaac tcctgacctc aggtgatccg cccgcttcgg  240
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ttgaatagtt tgttgtagt gtatagacag aaaactgatt ttgtatggt gatTTTTgta  360
tcccagaact tgactaagtg aacagatttc ttgatgaagt cttgggtttt tctacataca  420
agattatgcc actgnaaata aagataattt tatttcttct ttatgaatta agnggctttt  480
actTTTTttt ttttttttgg gacaanntg gcctggttgc caagctggaa tggcaagggg  540
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<210> 6358

<211> 556

<212> DNA

<213> Homo sapiens

<400> 6358

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taaaaggatg acctgaggct ggcaaccaca aaaccaagaa gccagcgggg gctgcccctt  180
ccaagtctca ccaatgacct agagcagggt ccagagccca aaggcccaa agtgcaattc  240
ccaaaagcca aggtctggga gccatcaagg agctcccaga gatccagcga cgctcagagg  300

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gcaagggtgt cttt gatgag cctgcgc atg gtggtggtga ctgaggtgcc cagggcatca 360
gtgatctgga aggagatctt gtacaggtag ggctgcacgt cccgcaagcc tgtgtcaaac 420
acgttatcca ccttcgactg tgtgggcatn ttgggcaaag tctnatgccg attcattaac 480
ttcacgatgt tgatgancnt ttgcaaaaag tttttaccac nttttccgg naaatttgcc 540
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<210> 6359

<211> 538

<212> DNA

<213> Homo sapiens

<400> 6359

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gaccacaggc atgtgacacc agctaattta tttgtatitt ttttaagaga tgaggtctca 180
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taagagttag ttaatggtac ttgggaatag ctttatgatt caaatcattt ccttgnaaat 420
ggtcaaaaat tgtaaggga ttttattaaa taaatggntt tcnggatttc aaaaatgggt 480
naaggggaaa aaaccttnaa aaggganaaa ggctttttina aggcntgggt ttagcttt 538

<210> 6360

<211> 555

<212> DNA

<213> Homo sapiens

<400> 6360

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 caggaaaaaa ctggagttaa gcagccacca gacaaggaat gcctgtagcc cccaagctt 480
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 aaataggatg cntac 555

<210> 6361

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6361

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 tgggggtcagt gaattattta agaaaaaact cagaagagtt ttgaaaaagg agcaggtgta 180
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 cattnatggc ctaangatta agcttacnnt gaattggcca tggacaaggc atgcttataa 480
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<210> 6362

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6362

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anccctggat n 551

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<210> 6363

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6363

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gggtgggacg ttaaaagaga caactgccca gggaacagta gtttaccat taaaagtaat 180
agggtaatgg gcaggcaggt taacagtgcg tataaaaatg tttaaacagc gactgaggca 240
gcacaagtta acctgggaca agaagcatgt ttacttgatt tgaattatag aactatgtat 300
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tttacatgat ataattcaag tttaagcctt ttaggaaata atncattngg tnaatattga 480

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cttttacaat acttgataa ttctattcnc aacccccaaa gagccattgt agccaaaacc 540
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<210> 6364

<211> 446

<212> DNA

<213> Homo sapiens

<400> 6364

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ctgatcaaaa aagaaaatct ttccaagaac cctnccccag gagactttct ttgattggcc 180
agaaccaatg agatgagacc agtctatgcc agtcactggg attactaaag aattatcatg 240
aaaggnttaa gccaatgnta atacctcccc taagtgcatt ggtgcttact caatatctga 300
acaaaattac ggntcttgag catgaaagaa gcaggcacag ggaagactnt caagttaggt 360
aaccagtaat gcctggctta cttggccaca gancncaaag gcgattcttg gataaancca 420
agnatngtng aattcattct tttaaa 446

<210> 6365

<211> 535

<212> DNA

<213> Homo sapiens

<400> 6365

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aacaaatgac aaggtaaate cttatgttaa atataagata atnccactt tcatttatta 180
ttttctaata taaaataggc ttacctaaaa caaacctgaa aagtttgaac tntgcaagta 240
gatncagttc tntttcacia tctaactagaa taatcattcc ctatattatt caatctgact 300

ttttagttnc ctcacttctt tttttatcca ttcaaagttt tatgctaaac aaaaactata 360
tgaatagggt caaacctgtt aaaagtgenc accgttgaag acttcctttc caatttcattg 420
gacatatncc tatcctaaaa tnggaattaa aaattttccc tttttaaaac ccaccgnttt 480
caaatcccg n aattttttac ctctttttta gntcngggat gggtttttgc tttna 535

<210> 6366

<211> 568

<212> DNA

<213> Homo sapiens

<400> 6366

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<210> 6367

<211> 492

<212> DNA

<213> Homo sapiens

<400> 6367

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 ccatcatctg ggctgtagcg gaacagttag tatctctgat gaatgatggg ctctatatgt 420
 ggtgggctgc ctttcagctt ggatcaagtg ctgcaaance tanagacang nttacccatn 480
 gncntaacc ag 492

<210> 6368

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6368

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 ctgccttcca gtgccttgat ccgatactag tttttccac tactatctg tcactacttt 180
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 aaccgccttc ctcttctg gttcagaatt attttttggg ccanggatgg tggcttatgc 480
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<210> 6369

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6369

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 ttgagtacaa gcggccattg tggactgnat aatcagcatt gtggaagaga accctgagag 480
 taaagaacag gcctagncca cctttngaa tcattggggc tgggacacct ggtctggtac 540
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<210> 6370

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6370

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 acctccactt tgaagaacaa tatgggggtg gagcttccaa tgtgcattct gctaccagcc 180
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 catgagaaag aattaacaca cacacacaca tgttcacatt ttntgcgang gacagtcaaa 480
 ttangnncca aagggaggat aaaacatttt agagaacnca aaagcctggt gccttgccca 540

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580

<210> 6371

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6371

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acaggcgccc accaccatgc ctggctaagt ttttgtatit ttagtagaga cgggggtttca 180
ctatgttggc caggctggc ttgaactcct gacctcgtga tctgcccacc tcggcctccc 240
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acttcattag aataagcctt tttgaacct tctttactaa gtccctcatt taataatncc 480
tataataagc tggaattitn gcttgggttg ctatggcaat ctgnccagt agaattcgaa 540
ttcatgagaa acaaggttt gtttgt 566

<210> 6372

<211> 511

<212> DNA

<213> Homo sapiens

<400> 6372

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ggcacaacat catgccaagg tagcttttaa atttcttgta gagaccagaa cttaccatat 180
tgtccaggct ggtctagcct caagggatcc tgtggcctca gactcccaa gcactgggat 240

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 aaaatgtttc catcaatgga aactttgtaa aaggtacaaa gaatctcatt tcttaggatt 360
 gcatgtcaat ctacaattat ctcaaaacta aaagtttaaat gaagactttt tttttttttt 420
 tttttttgan acagggcttt tgttgnccaa gcttganttc aatggcncaa aaaaacagnt 480
 tactggaacc ttgaccnccc aggttaaana a 511

<210> 6373

<211> 572

<212> DNA

<213> Homo sapiens

<400> 6373

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 gatagaataa ttgagtaatt cccccccata agtacatttt attgactgtt actgcataat 120
 aggcgataaa tctgatgctt atttggaaaa gaagtaggca ttctttagat gagctgtgct 180
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 agggagaggg gaggggagct agtagtcac agctaaaaaa gagaagaaga aaagtgattt 360
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 ggtaagaata caggtctagc tgcagatcct ttattggtga ctgntttaca catatactct 480
 cctcatcttc tggggaaagt tcttggtagt naangcngt aagtctccc nttcaatata 540
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<210> 6374

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6374

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 gatctgtgtt gttagcttaa aaaatacaga attggccttt caaaaaaaaa taataatcta 180
 cagcaaccaa taaatagtct caaacaaccc tgctgactgc agctgccttc tgaaggctgg 240
 gaaaaggagg tggagataga gcagaaagag gcagggaaag gggacgctgc agctagctac 300
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<210> 6375

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6375

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 atcagatccc atacgagaga gactctcttt caattctaaa tgaagtcttt ttctgccttt 180
 gtgatgtgga atgagaacag cttttaggtc caaatctgga acaatcatag gttctaattct 240
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 caaggcaaag aatatctctg gttcaaaatc taatgagttg taagcaacag aaacctgtcc 420
 ggcgccaact tcaaaagatc ataattcaca cacacagaag acacgcaagc accaactggg 480
 aagtttcctc tttggctcat tggattctga ngggaaggga ancntgcttt agncttctgg 540
 gcactttgnt ctgggccttt gganaa 566

<210> 6376

<211> 558

<212> DNA

<213> Homo sapiens

<400> 6376

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acatactcag catttatact tgtaaataga attgagtttt cattgtttcg ttttctgttt 180
ttgtttcctt aggaacaaga ggatgaagga aatatgggtca gcattttaat aacaccataa 240
atccaagata ataagtaatt ctataaagtt ttccagtttc attaattcag aatttcacatca 300
tataacttga aatccaattg gcttcctctt tcttagaaac aaaaaccaa gaaacctttt 360
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acatcttggt gagccagttt gtaaattcca acttcattta atgctgctgt ggcaggangc 480
ttgcctggaa ctgntggagg acatntttta caatagtga aaacccgcgt tcaaaatcna 540
aacaatnccg ggtttttt 558

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<210> 6377

<211> 563

<212> DNA

<213> Homo sapiens

<400> 6377

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agaaattttt agatggaggc aactgggatg tttgtgataa tagataagaa agacaccact 120
gacctgtagt taaattgggt tgaattgcag atattcatta ttgaatttat tcctgttttc 180
tcatacttta gaaaagacac ctgaacaata aatgaatcct ggatagtgtg ctgtccttca 240
aacaatgaag tgatattaat acttgctgc aggagatgca tactacagga gagaacctt 300
agactatgtc aggccacact atgaacctcc cccacctgc cttttttctc ctttatgttt 360
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taaactatatt ataatcgaa aaaaaaaaaa aacaacacag ggcttctgca gggaatattc 480
 tttcctcaat attctacttt ccttaactct tctttgaatt tgcttaanca tttgaggctn 540
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<210> 6378

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6378

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 gccatttgaa gcttgtagtg agcagtaaaa ttgccaacat acggtgagtg aaatgaagtc 180
 acagaacagt attactagtg tctatcagtt atgtaaagct aacaaaaaac cgtgcattta 240
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 ggagcagggt ctactctgt tgcccaggct ggagtgcagt ggcataattt ctgctcactg 480
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<210> 6379

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6379

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aaaatgccca ctgcggatat ctgacacctt ccattcaca gcatctacaa atgagtcgat 180
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 gacaacatca ggaagatcca tgtggtgccc ttcagaagac aaagacttct tgcagttata 360
 taaaaagtca aaggcagtg caaaacctgt taaggaatgg ccaattggaa cctcatctcc 420
 tgggtgcattc tctactagcc agtctttgta gccaaaccatc ctgtccatat atttcaagac 480
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 ccataaattn 550

<210> 6380

<211> 584

<212> DNA

<213> Homo sapiens

<400> 6380

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<210> 6381

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6381

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ggagcttgac cttgtcagac aggtatagat gagtgttccg gggcagccgt aaaaactgcc 180
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agttttaaaa tgctagtttg gttggtttgg cttggaaagg angtaaaagt gggaagtnaa 540
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<210> 6382

<211> 586

<212> DNA

<213> Homo sapiens

<400> 6382

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gcaggggcag gggcaggggt gtcagtggag cccaaaggag ctgggtccaa acatgttggg 120
gggacctcct ccatccccct accccaata aataaagtct cagctccatc tcagggtgct 180
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tcagggtgct tcaggccaga ctnttgcgct gaatgctgan gcttaaggaa ccttgggnca 540

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ccccaaatgg tgagacaacg ggtgaaccaa ccaccngagg aaacnt

586

<210> 6383

<211> 553

<212> DNA

<213> Homo sapiens

<400> 6383

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 naaaacccca gtt 553

<210> 6384

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6384

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<210> 6385

<211> 579

<212> DNA

<213> Homo sapiens

<400> 6385

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 ttctcgtcgg gttgacgttc ccagcgagtg aagccttttc tggaatgtgt gtacgcaccc 180
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 ggcttctgca acatgcatat tccccagcc cccacctnca tcttgcccag ggcagaccat 480
 tcattaacta tctgcggggg gaacaaagaa tccaatcct tagatgtccc aggactcatg 540
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<210> 6386

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6386

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 ccccttaaat atcaaatgta gttacattct ggtgcaaact taaaagtaat tticaaatc 180
 tgtctgaaca tgggtgtctta gtctgcttgg gctgccagaa caaaatacca tagactgggt 240
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 ntaaccccat tccataccct ggagatggag 570

<210> 6387

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6387

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 aacttctaataaat aaatgccata acttaactat tacctctatt tgtaccttc acaaggatct 180
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 taccaattta agtgatcaat atattaatgg ttttcagagt agtaccgat atttgatgtt 420
 caaggtcatg catgggtatt ttnaatcct taacctagac cgcanggtat aagtcacat 480
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 aataatgnga ngacccg 557

<210> 6388

<211> 585

<212> DNA

<213> Homo sapiens

<400> 6388

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tgaggaggact gcttgagcct gggagttcaa gaccagcctg ggcaacatag tgagacccca  180
tctctacaaa aaaaacaaaa aaaatagctg ggtgtggtag catgtgcctg cagtcccagc  240
cactcaggag gctgatgcgg gaggacagct tgagcttagg aggtttaggc tgcagtgagc  300
taagatagng ccactgcact ccagcttcag ctacagagca agaccctgtc tctaaaaata  360
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ctgcccaatt agaactttct ccatgcaatg caaattacag ncacttgagg cactgggatt  480
tctaagttna atttaactaa anacggggac ttgaaacagn ccacaccgtg ggntcctggc  540
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<210> 6389

<211> 572

<212> DNA

<213> Homo sapiens

<400> 6389

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aaaagttttt aagagtaata agcaaaggta gatgtgtatg tgtgtgatac tgtcatgggtg  180
acatttgtcc aaacctatag aatgtgccaa gagtgaacac tgtggactct ggttgatggt  240
gatgcatcaa tgcagtttca acaactgtga cacatccacc cctctggagc gagaggtctg  300
cagtggggag gctatatgtg tatgggggga aaaggggggtg tatggaaact gtaccttcca  360

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cttaattttg ctgtgaacct aaaactgctc taaaaaatag tctattttta aaaggcacat 420
gattcaatta cattttccat caataacaac tgagaggctt gggaatgatg accggtgtgg 480
actggcccgg cccattacc tgggtgcacgt ccttctgnat ccgnatcgtg gtgctggccc 540
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<210> 6390

<211> 582

<212> DNA

<213> Homo sapiens

<400> 6390

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attcagcaaa gcgtactttt tttcccaaaa cataaaatca ttcagcaaaa aaacaaccaa 180
agaacaataa caaaaaaaca gtgcacatgc cacaagcaa accaaacata gctcagtttt 240
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acttaatatg cacacccaaa tattctaagt gcttatttag ggagtatctt tatttggaat 360
aaagaatttc gagttataaa actgatggct tataagaatg cagcttacta aattggnctt 420
cgttcttaca aactggagta atcttgcctt tgagagtga aaatacatat tcatctacat 480
ttctgcagcg agtgggncca cagttaattt tcatcactgg tgggggttgg caanaatgnt 540
cactcttttt ctgntgctgg ggctggggct tcntgactt gg 582

<210> 6391

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6391

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caagcaacag caattactgc ttaagtgttg cctctagata ggagcggcag atagcaggaa 120
 actgtattat ctccaaaaca aactgcaagc cccccacccc cccgaacgtc tgtaatcaaa 180
 tcgccatctc cccaaagtct gattggcagg gcagatcacc ctaagataat gaatttatta 240
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 tgtaaattaa caagaaaaaa tggtttaaaa agaaaccacc ctagaccaa atgttctgct 360
 cctctcgctt tccttcttgt tattgcttta aatctttttc aaaaataatt gttctacaaa 420
 catattttct aaaatagttt cccaaagatt aaatatccct ttccaacccg cagtatatatt 480
 ttaaaaaagc aatccttcta tgtaatcatg aaggattgta aatgggggag aaatattttc 540
 cttcctttta aaaactgggt natttttcct tttaa 575

<210> 6392

<211> 476

<212> DNA

<213> Homo sapiens

<400> 6392

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 agacaccaa tgtctctgnc tgccgnggga taaatatitaa aagtcagcaa taaaaacacg 120
 tggctccaag ataatacatg ttgccaaga gtcattgatg ccctcctgat gggctctcaa 180
 cacacgcacg gacatgggaa cacacgcaga gcaacacgca gtgagacttc tgggaaggct 240
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 ttgagctccc ctcccctccc caacagggcc tagatcctct gggttctcca tgcccctct 360
 gccccctacc ttgccagtgc ctnacaggct gggcacctc ctgagagcat ctgacacca 420
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<210> 6393

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6393

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tttttttttt ttttttagtan anacatgggt tcaactatgtt gccaggcca gtctcaacct 180
cctgactgaa gcaatcctec tgcctcagcc tcccaaagtg ctaggattac agatacgagc 240
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gtgtactggg acttnaggct agaacaattg ggctttctat cctctggtcc tttcagaaac 480
aaaaggggaa aaaacnggnt tnaatcctca ttgctggaa attccgggcn ctncagnatt 540
aggataacac ctncaaagtt tttctt 566

<210> 6394

<211> 582

<212> DNA

<213> Homo sapiens

<400> 6394

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actacaggcg gcaccaccat gcctggctaa ttttttaaaa attatttgtg gagacggttt 180
cactatgttg ccaggctgg tcttgaactc ccgagctcca agtgatcctc ccacctcggc 240
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tgactgacaa cgtcaggcag tagtccagtc gctaggacag acggatcctg acctcacac 360
tggagtgggt cacaagggcg ccgtantgcc ccaccagga actcacgtct ctcccgtact 420
gctcaaaaga tacgtagcgg atgcccttgc caaagttggt gaaanacgtg ggagaacctg 480
tcngcaagcc ctttttagtc cacttgaagg accgggtcaa ggtgaaggct tnaaaacttt 540
gaccactttc cttttnatan acattccaga angnggncc cg 582

<210> 6395

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6395

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ttaaattttc acaagattga cattattgct taaagtgctt gaattgggta catTTTaaaa  120
aattaaggta cagattattt taaataaaaa ctacaatatt ttagcaaca aaataatagg  180
aatgccacac aaatacagta actatttttg ttatacagaa atggaagcca aaaataaatt  240
aatgtaatac tggaaaacag aaatttaatt aggcagaaaa gtaggaaata attttccctg  300
acccatgccca cttacatgag ttcattacaa tagtgctgat aaatgccttg accatataat  360
agcaaacaag ggcaaaacat ttagtgcaca atattttaat acacgtgaat atacaaagtt  420
gatcaaaatg caatgttgaa gggataaaat ccatctgnaa taaagctaca ctncaatatc  480
taaaatagcc ctaagctcca tttggacntt ngatcatatt taggctgncc ntgaaantaa  540
gggt                                           544
    
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<210> 6396

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6396

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ctgcataaaa tactgtttat tttgtccttt aggaagacta aagtagtcca gctcccctac   60
agcccagtct tgccccacc ctgcactctg tcgccttagt tcctggggac caagcaactg  120
gcatttctca agcagaccct ctccctgttg ctccctttca gtccctggag tctggcttcc  180
caaaagccaa agctggagga gagctcattg ctgaggaagc agggttggag cctgaggaga  240
tgagaggggc ctggaccctt cgctggatcc cagaggccca ggggcagaga tgctgggaca  300
    
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gggctctagg ggaccactgg gtgactcttg aggggctaga agcagggctg ggtgactttt 360
gctacggtgg gctgcaacac tgtctggctt ctcaaagcgc ttgccgcaga attcacaggg 420
gaagcgcaag gcagccaccg nctctgcatg cttgcgctgg cgccagtcca gggaaacctt 480
ntggcggcag gtaaaccgcg atatctcaca ctgnaagggg tttttttcag ggggaaacct 540
ntnggatga caaggttctt gtantgcgna agaccggccc t 581

<210> 6397

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6397

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tgcagcctcg acctcccagg cccaagcaat cctccacct cagcctcccc agcagctggg 120
accacagatg tgcaccatca caccagcta atttttgtat tttttgtaga gatgggggttt 180
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tccgaaagtg cagtgattac aagtgtgagc tgccatggct ggccaaggct gtctttttaa 300
aagctaaaga tgtgttggtt caagaccagt ctgagcaaca tggcgagacc tcatttctac 360
taaaaagaaa aaaaaaatca gctggctgtg gtggccatgc ctgtagtcat ccagccactt 420
gaaaggctga agtgggagga tcgcttgaac ccanaanggt gaagcttcag ngaaccctga 480
ttngnccctg gacttcggnc tgggtgacaa tgagaaccg gtttaaaaag ccttgnangg 540
gtgg 544

<210> 6398

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6398

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 tgtcatcaac tcaggagtaa taataaaaaa gagaaacaac cagagaggca cacagattgt 120
 tgttttttta aaaggatttt tatactatat taaaaaacca caaaataaaa aagggatcaa 180
 tcaacatata tcttagaagt ccttccaaga gtcttggtat gcaacagcca tggaggctgt 240
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 gctctagtTc ttaaaatcaa acttgTtctg ccaaatecaa gaccctgaat ttgtccaaat 360
 tgtagaaaca tgcttttacc acccgTccac caaaatacct cccattcaag tcaacaaccg 420
 ctttaattgc tgattcaact ctctcaaatt ctaaaaatat ccgnactgnt tcatcatcan 480
 gggcccanga atcttggaag aaaatganaa cctgatgagt naaaggcttt tgaaatgcct 540
 tggaaggagt ttcccnttt 559

<210> 6399

<211> 522

<212> DNA

<213> Homo sapiens

<400> 6399

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 caggcacctg ccaccacacc cgaccaattt tttgtatttt tagtagagac agggtttcac 180
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 cactctncca gaagtcaggt tttaacttta gcctctagtt ctggaaagtt tctggcctat 420
 catagatcac agatctatca tagntcgnat ttttaggctg nccagtgggc caanggcccc 480
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<210> 6400

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6400

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ttatccagca acacggagat aanagtctgt ccaacccgac aagttccaga cccacacctg 120
ccctcacatc aggctcttcc ggtactgact gtgcgggggtg gtctgtctga ggtgggagtc 180
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cagctgctct gactcanaat ccggcggaga ccgagggggg tccttggcct ttcgcttccc 360
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accaggctct ggatccggga caagntgcc gggttgggga gggcaagggt tnggggggtcc 480
taaccgcac tggaagggtc cggccaangc anattccent tanaaaggac tcctcaggag 540
gcccaanggcc ttttttgggg ggaaattttt 570
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<210> 6401

<211> 519

<212> DNA

<213> Homo sapiens

<400> 6401

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cagcctcagt tgggacttta atgccatctt cattctttcc tagtcccttt ttagggagct 60
atccccattt agtcatgatt ttttgattcc tggggctgta tagggaggct gggatagtaa 120
tctctgcatg ccattgttgt aacaagtctc ggccccataa attgattgga atagaagtga 180
tcataggctg aaccgtactt tcttgattat cagatcctag acaatgtaa atcatggcac 240
tttgatacac ttctgaggcg gtgcctatgc caatgataga aacatcagcc tgggtatcca 300
ctaatccttc aaactctttc cctgaatagt gactgtacac acgggtctat cctctgagac 360
ctgattagcc caataagtgg cttttcctgc agggttggta cttcaaacc tccggtcttt 420
ccgtttggtt tccccaattt aacataaggc aaaaccngna ntgggcaatc tattcncngg 480
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aatggccttc anggaacant ggactgaccc tactggaat

519

<210> 6402

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6402

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 ttttcattcc ctcccttagc atatttatat tgtttgctg tctgtacact gtatcagtaa 120
 atgactgtat atcatatgtc aagtctatgt tgacactttc tgcattttct actctccgaa 180
 aaattatecc aaggaaccac attgatacgt aattgttgct tttatgatgt tccttattcc 240
 ctgggaatga ctggggattc acatgggcaa gagtaataaa ttcattccgt tccaagtffc 300
 caacaagtac acggatttta gattctacta atccaacca ctctagatgg ttttcttctg 360
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 caagtagttt ggaccaatct gactttcctt gaagaatttc atctgtgact gcaagacctt 480
 gttaaactct ctaccattac tggtcgagtt gatgtggacc cttttncgag aaatctgttg 540
 ngggaagcaa ggggtgatatg gcatganatg atcctattga 580

<210> 6403

<211> 532

<212> DNA

<213> Homo sapiens

<400> 6403

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 aagtcttgta gagtatcttt catcagtaca tgaaaacttc caaactgcat gatcttctgc 120
 caggcaggac tgggtgctat tcgctggttt gaggtcgaat ccatttcaag gcatgtcgtg 180
 gtgggacatt aatggtggga tggtagaatg tgcagtcagg tcttgtaacat tgagtgttaa 240

acctacaatg ttttggatga tagaaggac attccatctt cttacaagca gggaagtaac 300
 ggcagagctg actactggaa ggtggtgctg gtggtgcaac tggttttgga gacagtactg 360
 gaattcttct actcacatga gtgaaggac aatctggttt aatacacttt gcatcatatt 420
 taccatttgg gtgaacaaac caacattttt cagcaaattt acaattgggg aangcttttc 480
 anggngaana aggggtgaat ggnaggcaca cttatnccca nttttaccag cc 532

<210> 6404

<211> 547

<212> DNA

<213> Homo sapiens

<400> 6404

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 gtgcagaccc tgccacgaca gccagccgt ccaccacccg cctcatctct gccaatgtg 180
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 ctgcttcggg agacaggcag ggtgagggcc ctgttcgctt ttctctgaca anggttcaag 480
 ggcntgtgt ggcttgctgn ttccctgggt acccggaac tggtggnen taatggcctn 540
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<210> 6405

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6405

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ttaataccag agccattctg gagatgccat gtaagaaatc tggagttact ctaaattctc 180
ttcttagtgg tatcagaact ggggagaagg gtccaagcaa agtgttgcct ttgccagtgt 240
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cttactgnat ctcacagctg ggcctgggac ggaaatcttc cccacagttg gatgctccat 480
ctccataacg anggnccittt gggnaatacc cttgctgac cttgaagatg aaggaagggn 540
cntgggncca aggaatgcc aagctttgga agcccaaaca gngttttg 588

<210> 6406

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6406

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cactctctgt caaaggatcc agcgtggta atatagattg ctgaaggcct ttgccttctt 180
tccaccaggc aacagaattt gngtccccgt cactgcttct tcttctgtga aaaatatagc 240
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ctttagactt tctgngccca aaaagttagt ctttcacctc agcaccagn tttccctagt 480
taatctgaag ntcatgggc ctatgatggn cccaaattnc tggagcttca ganacccac 540
gtnagaaatn ctagggg 557

<210> 6407

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6407

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gagatgaagg ttcgctcttg ttgccagtc tgaagtgcaa tggctcgatc tcggctcact   60
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ttacaggcat gcaccaccag gccagctaa tttttgtatt tttattagag acagggtttc   180
accatggtgg tcaggctagt ctggaactcc tgacctcatg tgattccccc cgcctcagcc   240
tcccaaagtg ctgggattcc ttgctaggca ggaccaagca gagattggag aagggggctg   300
ggttggtgct gaggaacgaa aggggtggagg ccaatagctc ttgacctctt cctgtgggtc   360
aagaaaagga agggctgaat tgtcatcaaa aaggccaaag aagtaaacag aggaaaccag   420
ccaaaaaaca gaaacttagt accgtgttca agcaggacac agcatncaa gattancaat   480
ctctgacat cgcaacccgg gagacagaga acagatggcc cattcaggnc ttttttcta   540
acagttaang gcaangnggg tcaancnaaa agggccnccc                               580
    
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<210> 6408

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6408

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gggctggagg agagcttggg ggaggtatgg agaatgagaa aaacactttc aaaatgaagt   180
tctgtgcaaa aacttctggg aaggagtga aggacaagag aaaagctcca aaggggctgt   240
ggggcgcana tggccgggct ggggggtgca gagggctggg ctggggccct gtgtcctcaa   300
ccactcctga gaacacggac ggtcaggaat gaggggctca gaccccgggt tggtagagag   360
gaggtgacag ggagggaagg agcctgctgg agggaaacct ggctgggagg atgggtctgg   420
    
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gcccaggctg gggcctaagg agggggaaga acagatgaag cggctgatgc cttcaatgac 480
 ctgctnttan aatccacctc ctttntcgg ggttcttgct cangaaaatg gggggacttt 540
 ctgggctttc tttggggacc ccagcattgg cnn 573

<210> 6409

<211> 503

<212> DNA

<213> Homo sapiens

<400> 6409

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 ttacaggcat gcaccaccac gcccggctaa ttgggggtttt tttttgtcct tttgtttttt 180
 gtttttgacc gattctggct ctgtgccagg ctggagtga gnggtgcat ctcagctcat 240
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 caccatgttg gccaggatgg tcttgatctc ttgagcttgt ccaggatggg cttgatctct 420
 tgagcttgng atccgcccac ctggcctnt caaagtgcg ggattacang tntgagccac 480
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<210> 6410

<211> 571

<212> DNA

<213> Homo sapiens

<400> 6410

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 aagacatttt ataaaatgac tactacctgg gattacaaac gcaataattg tatacattct 180

cctataacttg ttggctagcg gtggttaatg cctctctaag tattgcctac cgcaagaagc 240
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 tcctgcaaac tatcaagctc acaatggttt ctgttcagca gtttatttct tctctgaaat 360
 atcctgttga aatccataat cattttgaca aaacccacac agaaagcaag ccaataattt 420
 ccctggcatt tggtaaagtc tgcagaacca tcataaaagc accacatgta aaaataatta 480
 ttcaatgnat taagcgctgg cnttggacca ntctctgggtg taagcccttt acatggntaa 540
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<210> 6411

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6411

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 ctccccacct tcctgggtcc cctctggggt cccagccatg ctccaggggc gtccctccag 180
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 cgatctcact caggctgcgt gctgcatgga ttttggactt actctgcttt ctgtccagat 360
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 accacgtgtg cactgcaatg ccgctgtgcc caaacgtcct ccttgtcact gaaccctgcg 480
 tgggtcatga acttncacgg aaaacttctt ttctctgaag acangttttc caactgcttc 540
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<210> 6412

<211> 584

<212> DNA

<213> Homo sapiens

<400> 6412

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 cttgcttggtg cttgggggggt gcccacttga ggcagacgga gtccactgtg atgggtgggt 180
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 gggtgatact ggtcatcttg ctgaggtcct tgatggacag tgtgccccgg aagtcccgca 360
 ggatctccag cagcaccag gaccagtagc tgcggtagct gagcttgccc aggtcagaca 420
 gcggcttctc cggggagccc gactgtgctc tccagcttgg agagtcata actgaaagcc 480
 atgangaact tcccgtaac cccggcgttg gtaggggggc aaggtcagga tgcangnccc 540
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<210> 6413

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6413

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 ggacatacca ttacagagag gaggaagaga aaggatggcg cggggggcgg aggaagagaga 180
 gcacctgcca aaaatccac actttccact tntcagctat cactcaatca tttttctgga 240
 tagggttaac agctagaaat ggtttaaggg caacatccag gtagtttgct tggaanatca 300
 gggagatgaa gagttggaga gaatgtgggt gtagcatttt gaaggattct ccagcttgaa 360
 cctgttgcca naaccctttt catggtgaac tgggagtcag gaagcttaat cctggtctca 420
 gctcagccat gaacttgctg tgtgactttg ggtgaatcat tttccctctg ngatcctctt 480
 tcctctgntg taaaacaatc aagtggcaa gttctccatg ggtttttagcc cttttgcaat 540
 gccaacggtt ntggcaacct nggcttaacc aaga 574

<210> 6414

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6414

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ctgatgttga acgaagtttg gagcaactgc ttcggataca aaatgtgtac aataagatct  180
gtgatacaag taaggcaggc actacaaccc tctttatgtt tctaattgtt gtcttcaaaa  240
taaaaactct ttttttactt taaaggctta tattggctgg gaacagtggc tcacacctgt  300
tattccagca ctttgggagg cagaggtgta tggatcattt caagtcagga gttcgagatg  360
agcctggcca acacagtaaa accctgtctc tactaaaaaa tacaaaactt agcccagagcg  420
tgatggcaca tgcctgtagt cccagctatt ctggaggccc aggcaggaga attgcttgaa  480
cctggaaggc anaggttaca gtaaaccaag aattgcacca gtgcacttca ncctgggana  540
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<210> 6415

<211> 586

<212> DNA

<213> Homo sapiens

<400> 6415

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aatacagcgt aattggatcat caaaatacaa aacagctaata cttatatcc attttttaac  120
catgccaacg atcaaattgt actgctgatt aacacaaaaa taattgctgc ccacttgcatt  180
actagcactt cacccttcc tttccacctc cccccctc ccatggcaat atttacttat  240
gggaaataaa gaccttacag aacccccaaa ttaaaaaaaaa aaaacagatt caagagatct  300
    
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taaaatagag catttaaaat attatcagtg cattcatgag gaaagacaaa ataatacaaa 360
 acaaaatgtc atcctatctg agaggaaaat gtctgcagaa ataaaagtga ttacacata 420
 atagaaaagt ggaagacaaa aaaataatca acacacactc aaatctggga ttgggttaca 480
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 tgcaaatcca attcttaatt aatgggnagg aaattccaaa aggaag 586

<210> 6416

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6416

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 tcaaagctga ttctgtgaga agagggctgc atacttgtgc aaacggaggc tcttgagcca 180
 tgagggcaca tctttcatgc cactgccatc ctcttgaag gtgttccggc tggagccctg 240
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 atcgggcgtg gtaaaagcag cccgggcccc aagctcctct ggactcggcc actcaccagg 360
 gacctggggg cttgtaggga tgagtacat ggagcgcttc agtgggctag ggtggatttg 420
 gcaggggaaa cctgtgtttg cattgctccc aatactgttg atggctgcng gcacttganc 480
 tggatggtgg aaagggcccg tgtccanttt ccggggngnt ttgccttgcc agcctgacct 540
 tgcttccan ggcctaactt ttgangggcc cccc 574

<210> 6417

<211> 534

<212> DNA

<213> Homo sapiens

<400> 6417

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 caacctccac cttctggttt caagcaattc tcctacctca gcctcccgag tagctgggat 120
 tacaggcgcg tgccaccacg cccagctaata ttttgaattt ttagtagaga cagggtttca 180
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 cacagaaagg aaatggggag agaattggagg aagataagga aagacaggaa aggaggaggg 420
 aaaagggaag aagatgaaga tagagcgtgc tgtatgangg caaaggtggc anaagaaaca 480
 ccangaaggt ggagaattca cttctntnta anangagctg gcttttccaa atga 534

<210> 6418

<211> 577

<212> DNA

<213> Homo sapiens

<400> 6418

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 ttacaggtgc ctgccatcac acccggccaa tttttgtatt ttagtagag acagggtttc 180
 accatgttgc caggctagtc tcgaactcct gacctcaagt gatctgcctg ccttggcctc 240
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<210> 6419

<211> 582

<212> DNA

<213> Homo sapiens

<400> 6419

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tcccttgata gctgtattcc taggtatattt attctctctg tagcaattgt gaatgggagt 120
tcattcatga tttggctctc tgcttgtctg ttgctggtat ataggaatgc ttgtgatttt 180
tgaacattga ttttgtatcc tcagactttc ctgaatttgt ttatcagctt aagaaggctt 240
tggcctgaga tgatgggggtt ttcttgatat aggatcatgc catctgcaaa cagaggcagg 300
ttgacttccc ctcttcctat ttgaatagct tttatttctt tctcttgcct gactgtcctg 360
gccagaactt ccaatactat gttgaatagg agtgatgaga gagggcatcc ttgttttgtg 420
ctggttttca aggggaatat ttccagcttt tgcccattct gtatgatatt gctgtgggct 480
tgtcataaat gcctantaat tttgaggatg tctttcaata cctaagttaa attgaaaagt 540
ttttaatatg aangggntgg tganttttat tcnaaggctt tt 582
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<210> 6420

<211> 468

<212> DNA

<213> Homo sapiens

<400> 6420

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gaatgcgcag gtcgtggtat ttatttctat cgctctaaag agtattgttt caggaaaaac 60
tctgcaagcg gtgtttttcc tctgttctca caccagcaca acaatcacca acacagaaaa 120
gggcttctgt gaccaaagt gtgagggttt ttccgccaca caccaagcag tgaacaccag 180
ctgggtgttc tccaattcaa tgccagcact atagaccag agatagtatc agatctcaca 240
gctcagttcc caagactgct gcccccaact cccagacgt cagtcgcaag tccgggcctc 300
tggaacttga gagcaaccag cttcaagttg gggttctcac aactccctct ttgagatcgg 360
tgtttttttt ttttttttcc agatggaatc tcgctcttgt tgccccccag tggngngaatt 420
ggcncaacct nggntcaccg naacctntgc tcccaggttc aagcaatt 468
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<210> 6421

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6421

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caagctctgc ctccaagtt cacgggtgtc tcctacctca gcctcctgaa tagctgggac 120
tacagggtgcc cgccaccacg cccgtcttat tttttgtatt tttagtagcg atagggtttc 180
accgtgttag ccaggatggg ctcaatctct tgacattgtg atccgcctgc ctcagcctcc 240
caaagtgtg ggattatagg cgcgagccac cgcacccggc caatatactt ttactttcta 300
taagaaatga gtaactttat taattctacc aacagataac attcttcctc tcagagagta 360
atatgcaatc atttctaac cttattttat tgcgtatat tttaaatata ataaacgtgt 420
caaaaatgtg gtttcgtact ttttataaat tgatatattt acctaattac actaaatcta 480
agaaaatcta tgggcttatt caaacttctc ttctcttctt cagangcaaa cctgnataat 540
tccgtggggt ggttggttgg tttnaanacc aaa 573
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<210> 6422

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6422

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agggaataat caaagaatct atattagtca aaacaatctt gaaaaagata acttacatca 120
cctgatttca agactactat aaaactacca tgatcaagac atttctgctc atcaaaagac 180
atcactaagg aaaagaaaat gaataagcaa gacatgcctt tgaggaaaaa tatctgcaat 240
atagggtatgt atatgtgaca aaggatttct agtgataaaa tataaaaatg ccctatttgt 300
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aactgttgat atgaataaca aaaataatga gatttaagaa catgtaaaag attggaacag 360
tcaatttaca aaagaaaata tgtgactggc taacaagcaa atgaaaagtt ctcaacatca 420
gtactcatca gggaaatgca actaacatct tacatctact aacatgacta aaatcaaagt 480
gagaacaatn tcagatggta gtgagcnttg aagagccact ngnactttca taccttgntg 540
ccgggggtgt aaaatgggtgc catcgttcan aaactcng 578

<210> 6423

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6423

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tactgattct ttgttttgct gttatctttg ttgaatttta gtatcacagt aacaatgata 120
gttaccaatt tgttataata aaatgagtta agaagtattc tcattttttt ttcttaaatgg 180
aagactttac ataagattca caatatttct ttcttgaagt ttgataaaat ttattagtgt 240
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taatcaatat agggatacta aaattttcta ttgctcctgg gtaataattt gtgttttcca 360
aagaatttat ttttttcaac taagttgtct aatttactgg cttagagctg tttatgatat 420
tctcttataa ggccttttaa tgcctatag atccgcagtg atgtctccta ttttattaaa 480
tatactggta aatagtgctt tctctcttat tctgggatag tctaantaga gctttatctt 540
aactaacttt ncaagaactc ttttagttca tatt 574

<210> 6424

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6424

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aaccataaga tctagaatca gaaggagttg aggggtggtaa ggtctaaaac cagagaaatg 120
tataaggcaa agtctaaaat cagaagatat ttgaaggctg aattctagac ccagggtaat 180
ttggagtcag atcttgagtg aggaggagct ggaaatgatg aagtctagag ccaagggaac 240
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tctggttcta gaagaactgg ttattataag ataaggacag ggtcgggcac ggtggcttat 480
gcctgtaatc ccacactttg ggangctnaa gccggtggat catcttgagg ccagagtcaa 540
gaccagnctt tcnatttggc aaaaccccggt ttttctaa 578

<210> 6425

<211> 569

<212> DNA

<213> Homo sapiens

<400> 6425

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agttctatag atgaggccag atcatttttg agaattaaga taagagtggg aacttggtta 120
aacaaaaatg aaaataaaac ccacctact cctgtatctc tccctgatta gacattaaag 180
aggtgaatca ctgcctctgg ctgcttcagc cttccaggaa tgaagagcca tccaccttgc 240
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caacaaatta acatgttggt aaaaaaaaaat accaccatta gcccatgctg ctttaagtta 480
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gttaccaaat tccacnttag actntgggg 569

<210> 6426

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6426

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agtatatgtc acgcagcaat ttatcaaaag cttttgttgt gaaaacactt ttcttaaata   60
cacaattaaa agatatgatt aagcacttac aggatgtgaa atatttaaag gtaatacaca  120
ataatcgggt taccaaaagg acgccttcca atttttcttt ctattcattt tgatgttttg  180
ttcttttcaa aacattttct ctcattacat tcattactaa aggccttact ttaaatacat  240
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ctgggaaaaa gaaaagttat ccacttaca ggtatacgta ttgacaacat ggatgttaca  360
gtccaaacaa cagcacaaaa tcaacctagt acatgtaaca tagtgaaatg agtccacgtt  420
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cacttgtcaa agcagcttct cantgggtgtt gggcatctgg ggatttcttc ttgggcttct  540
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<210> 6427

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6427

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cacgtgtaat tagaaaattc atttgaacaa agaagaaaaa ttgttattat gggaacagtg  180
gcatgtaact gtcagcaca tcaaatcata caatagcaca gtgatcaatt agaactagtc  240
tcaagtgaag aataaaagcc agtttaactg tgtgctggta cactttgttt ctcttaattg  300
ttgcctataa acaaaagtat ttggaagta atttaaatcc acttaattct tttaaaaata  360
atattgtaat ttgttttggt ttaatctgat tactaaccat ctggtcgttt tgctatttct  420

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gactttaact tatgaacgcc ttaacatttt ctttatatca ggcacatatt aacttactaa 480
 agatatttat tattaaatac taaataattc aatgtccaaa ctgacttaac anntaatgga 540
 aaccaacat tcatttcatt cctttgnttt aatttcng 578

<210> 6428

<211> 572

<212> DNA

<213> Homo sapiens

<400> 6428

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 aggaaatgca cattcttaaa aagaaacaaa tattatcacc ccaaccagtc cgaactccat 180
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 gtaaagatca gactgggcac ggtggctcac acttataatc ccagcacttg ggaggccgag 420
 gcaggtggat catgagccca ggagttcgag accagcctga caacatgaca aagtcctgtc 480
 tctacaaaaa atagaaaaat tagctgggca tgggtgttgca canctgtagt cccagctact 540
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<210> 6429

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6429

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ctcattcttc tgcattgtaa agttcaaagg ctactataaa ggacgtatct taagaaatcc 180
 ttccttcttg aataatgtct gcccttgca attttcaaag tactttaaga tcatgagatc 240
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 caagaggact caaagaagag gaagaaatcc ttgtcttcaa caggtctggt cagctctgaa 420
 gattccctga aatgtgacat gtaccgtgac tgttgcatc tggagtagcc actacactgg 480
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<210> 6430

<211> 534

<212> DNA

<213> Homo sapiens

<400> 6430

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 caataaaaga tatttgcttc atgctttggg catntatcat agtngcccaa aagactntgt 180
 ccagtaaaca taactgtcac agtactgaag cgcaaactta caaaattgnc tttgngttac 240
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 ttcgcttttg canagctgag agcacctgtg catgtgaaca agcaggtggg tatctcactg 420
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<210> 6431

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6431

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 tgggtataaca tcaggagctt taaatcccaa aaatgtgggg ttgctcatct tggcccagta 180
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 aacttgactt gcgtagcttg tgtanagggg attcaaagtc tncaaatnga agtgtgaaca 480
 ttaattcttc caacccatgg tcttgagctg atccaaccta tggctggatc tgctttgcaa 540
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<210> 6432

<211> 525

<212> DNA

<213> Homo sapiens

<400> 6432

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 gattacaggc acccaccatc catgcctgac taattttttg tatatttacc cgaaacgagg 180
 tttcaccatg taggccaggc tggctctgaa ctcttgacca caggtgatcc atccccctca 240
 gactcccaaa atgttgggat tacaagcgtg agccaccgtg cccggcctta aacatgcaaa 300
 tctgattatc tctctccctt tcttaaaaat gtcccttttt tccattgccc ttaggtaata 360
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 cctggccctn agccacactc ctgccttgca gtccctntga catgaatgca atcctttctg 480
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<210> 6433

<211> 589

<212> DNA

<213> Homo sapiens

<400> 6433

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caaataaggc taatttattt attacatgga tcctgacctt gagttaagta ttcagaacaa   60
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tattaaagat tacctgcggc agcattcttt tgttggaact tggttaaata catgttcatt  180
cctttcttaa agtccttata cccaatgtag tcatgcagca ttcggatgac agatgcacct  240
ttgctatatg atatagcatc aaatatctca tcaacctcag atggatggcc cacactgact  300
tcaataggat ggctgttata taaggcgtca agctcctggg cacgggtgta atcagcagaa  360
acaaactgag tccaaatatc atactctggg aagcagtggc ctacacacag atattcaatc  420
caggatgcaa aaccttcatt taaccaaaga tgagtccacc attccatagt ancaagattt  480
ccaaaccatt gatnggcaaa gtcattgtccc acaancngga gcanccactt ggcgggatga  540
agaacaggaa tttttggatc aataagcaat gcanctccta tgttnaaaa   589
    
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<210> 6434

<211> 593

<212> DNA

<213> Homo sapiens

<400> 6434

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gctgagacta caggcgccctg gctaattttc tgtattttta gtagagacag ggtttcaccg  180
tgtagccag gatggctctc atctcctgac ctctgatcc gtctgccttg gcctcccaaa  240
gtgctgggat tacaggcatg agccaccacg cctggcccaa ctttactgat cttttataat  300
gatctttcta tgttacttat ttagggatat cttttttaga caatcaatat gatccaataa  360
    
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tttacattta gtgactcagc aacatacttg atctaaatta tgtcactctt tatgtgatgc 420
tatttggttg tatggcttca aacaaaaacc ttaattgggc ttcacttcta ataaagatga 480
attttacctt ttaatctaaa aatgacattg aaaactttaa ctttttaana attctnggaa 540
tcattatfff gnnccaaaag ccttaaangc cttttaaaag aagcctgatt tnt 593

<210> 6435

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6435

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aagcacacca ggtccacata gcagagaact tcacattatc aagtttctat ccaaagcttc 180
aaagaagcaa ataatatfff gaaagactat gtgataaaag gatcaatfff tagaaagttt 240
catgatctgt catggatcaa tagtttataa aggacactga aacttgatg ttgaggcaat 300
gtcaaattgc cccaagtffc taaatgctta ctcttcattt ctgtacttaa tgtggacttg 360
gatcaaatag ggcatgaacc agcattggtc cgtggactgc attttgactc gtattggttt 420
aaagaagttg tcgtttactc ctcgaggtag tctcagatct aattttctct tggattaata 480
tgacaactaa tacttgaagc acttagctta ctactagagg aatctatcta ctgggggatg 540
ccttatggnc ctaactffta tcaaattfff aagnnttgat aaaaancn 588

<210> 6436

<211> 598

<212> DNA

<213> Homo sapiens

<400> 6436

gagacggagt ttcgctcttg ttgcccaggc tctgtttaaa aaaaaaaaaa aaaaaaggtt 60

tattattgct aatactatgg aggggctcag agatgtgagg aataagacaa agctgcttta 120
 tttggtgaat ggcagtcatt agtgactttt aaaagagcag cttggtagaa tgtagggagg 180
 ttgggttatt ttctttttta cagatnctat ttattaggca ctatataaga ttaaaagaga 240
 ctttaacacc tcttttaaaa aaaggcttta tctctttcaa tgcttacact gactctttta 300
 acaccctttt tatagatgaa aagtgcnatt gagagagggt aagtgacttg ttcaagccct 360
 tgtataaatt aagtatggac acaggattta acccagttgt gtctgaccc aaagcttatt 420
 attttaatga gttgcctcct ctctcattca tggaagccag aatgcaagt gttaaggagt 480
 aataaagaag gtgaatggaa ccnggtatag aggactctta aggacagggt ttggccaaaa 540
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<210> 6437

<211> 589

<212> DNA

<213> Homo sapiens

<400> 6437

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 catgggttaa ctcaatcttc acaataatcc tttaggttac atagtattat caacctactc 180
 cgtatgaaga gactaaaatt caaagggtt aagcaacttg cctaaaataa atgttactag 240
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 tgggcagttc taattttttg ctatttcaat aaatgttgct aggaataata gtgtataggc 360
 cttatggtat atatgacaaa aagtttctct agaagacaaa gaatagaaat actgggtcac 420
 aggatataca tatgttccag ttctcataat gaaaatgatt ttgangtgg tttgaacaat 480
 tcatgtnttc acaatcgggg ctccatattc ttaccaagac taggactggc aactgggtca 540
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<210> 6438

<211> 553

<212> DNA

<213> Homo sapiens

<400> 6438

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gggttttaaaa ataaaagcac ggaccaatga ggtgggaaag actgccaggc tggttctttt   60
acctaggatc tcagtaatac cagattccag attccctctc ggcctctaag gctctgaatc  120
caggttagag gtctgaaccc ctccccccgt ccccaaattg ggggcattta gttttttggt  180
tcataaatac tgtccaggca actcaaagaa gacaccaagg ttggactctg ttttctttcc  240
tgctcagttt tttgctgctc cagtgtatga attgagattt attttttaag gccctcctac  300
atttatcctg tgttgctcag aacgccgacg tttccactg atatctgtcc tatactttca  360
aaagaaggta tgatcttctg ggatcagatg aattgcttaa gtggttacag tttttgcaag  420
ggtgttctaa ctgatgacag tggggtaaag tgggattcta ttggcctctt gggtncatt  480
gnatctgntt ctactatgca atttaaaant gcttngaacc tttccacgg gctaatttga  540
tnttnccaat tgg                                                    553

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<210> 6439

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6439

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aactgagata aatgtagatt tacatatagt tgtagaaata atacagaatt atcccgtagta   60
ccccttacct agttaccccc aatggtaaca tcttgcaata ttataccaca atgtcacac  120
caggatattc agatagatgt catccactga tcttactcaa aattcactca ttttcatac  180
agtcctttga ttgtgtggta gtctgtgaa atttcatccc atctgtagtt ttcattgta  240
catcgccaca gtcaaggcac agaatgctt acttccatca ctataaggaa cccttggtt  300
gcccttttat aaccacaccc acttctctcc tctctcccaa actccatctc taatccctgt  360
taaccactga tatgttccct acttacacaa ttttatcatt tcaagaaagt tacagatatt  420
gaatcacata gtatgtaacc ttttaggatt gngntttttc actcagcatt attccctgga  480

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gatcatccaa gttgtggacg aatgattggg tcntttaatg gttggggang tagncnttgg 540
gattgatggn ntcacagttt aattattccc ccttgaaggc anttggg 587

<210> 6440

<211> 571

<212> DNA

<213> Homo sapiens

<400> 6440

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aaaaagcatg gattgcattt atatagtgtt tttttccaaa aatctgaaga aattatcaag 180
agcacttggc agagataact tgatgaaatc aggggaaaaa attgatgtcc aacttttaaa 240
tatacaaaaa ctgtattgac attctacata attcaaattg tgtgcaagat gttctcaata 300
aacatttaca gactgtatcc ccacaccaat gtcagaaatt caaagctggt cctattactg 360
atgtgataca tcaacatcac aatgtcagct atcaaaaatc attttaaate tatgtttttc 420
caacaactcc agttccatca atgaaaataa ttttaaagga tatcaagctt ggaaaccata 480
aaatatttgg caagcnttgg ttggttggtt ngttggttct tctgnttggc ctttgaatct 540
anggaaagnc nccttantct cttcaggaaa a 571

<210> 6441

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6441

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actcctgcct cagcctccca catgagctac catacctggt aggacattat ttttaagctc 120
ccattaggtg gaaatcaaaa gacaaagctt ttagtaacag ttcttccata aactagctgt 180

gtaatcttag gcaagtcact ctgaatccca ggtacagttt tctaattctac aaaaatgact 240
 ggaaaaaatt atttctaaga ccctctccac cttaagttat tccactagtg caaaatttaa 300
 aaataaagac tcttatgggt tggatgtttg tccccccaa atctcatgtt gaaatgtgat 360
 tcccaatgtt ggaggtgggc ctagcgggag gtgtttgggt catggaggcg gattcctcat 420
 gaatagcttg ggccctccac atggtaaata atgagtctca ctgtagttca tgccaaactg 480
 ggtgggtaan agcctgccac ctctttttt tttggtcng gtttcccata tgacttggnt 540
 ggtacctttt acctttcgcc atgctgga aaagt 575

<210> 6442

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6442

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 tttgagtcct tctatgtctg tattctgtct tcaaatgtga ctgcaaattt gactgaattg 120
 agtagagttg ccgcatatgg ttgtaaagat tatgcactgc aaaaccctag ggggtcattt 180
 ttattcaaag tgttttaaaa atgcgaacca aaaccgaaaa gctctagggg atgtcattca 240
 ctgcatgttg gtttggttg aatattactt tccagaattt tgaaggcatt ttctcatttc 300
 ttctagcttg caatgataat gttaaaaagc ctgacgtcac tgtgatcgtc ttcttttcct 360
 cttctttcaa tgtgtactgn tttcttcac tcccttcacc cacttccatg cttctctctc 420
 ctttttctcc acaaacttaa aaaaagattc tctttatctc tagcgttcca agatttcaca 480
 acaaggtaac ttggtgtggg cattttctca acttttcgca tggactctgg tgggactttc 540
 aatctggaag acttataatc ntncctctg ggn 573

<210> 6443

<211> 571

<212> DNA

<213> Homo sapiens

<400> 6443

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 gtaggtatac acagaaagac tgTTTTcttt ataacaaaaa atactataaa gaaagagata 180
 atggaaataa ggcctataat gaagacagaa tcactaacac tgtcagaatt aactgataca 240
 gagaagaaaa gatTTTTtct tggaaggc attaatTTtg cagatcactg ggatactatg 300
 tacatctgca aagctaaata gaacctcaga ggtccaaata gggcaatgtc atttactgg 360
 tcagatcaag cccagataag taatcacaga aaaccggaag tacacttttc atagatTTTT 420
 tttaaaaaca ctggctgaac aaaatagtgt ataaattaat gtaagaaagg cactggtagt 480
 gncagntaa tagatactcg gTTTTtttc tttcaagtgc cactattaat gggtaatTTT 540
 ctttcttgg ctattaagcn cctgnaaccn g 571

<210> 6444

<211> 564

<212> DNA

<213> Homo sapiens

<400> 6444

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 agtaactcaa aggaataatg tacctccata tactagactg gaagtgtaat gacacattaa 120
 agtgcaccc tatggttcac gtaacctaaa tccatttcca ttatgacagg acccactatt 180
 acacctaag catagaactc agatctgtag atcatggcaa tgactaaaga gtttcttaca 240
 gtggcaggca gtactgatcc cacctatgaa acaggataat tgcatatcca ttctacagaa 300
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 aatgatattt ctaattcatt agttagaggc ctggaatcaa ggtgccctta gcaatatatt 420
 tttggagagc aaagaatact attcccttgg tttagagatg aagaactgag gcttttgagt 480
 ggggtanggt tncataagaag ccacagctgn ttaatgnnca gcacatagaa tggctggcta 540
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<210> 6445

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6445

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tgcaagctcc gcctcctggg ttcacgccat tctcctgcct cagcctccca cgtagctggg   120
actacaggcg cccaccacca cgcctggcca attttttgta ttttttagt agagatgggg   180
tttcaccgtg ttagccagga tggctcgcgt ctctgacct tgtgatccgc ccgcctcggg   240
ctcccaaaat gctggaatta caggcgtgag ccaccacgct cagccaactt ttattcctcc   300
atttcaaccg tggagagtct gatgattttg tgccttaggg ttgctcttct caaggagtat   360
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gaaagtcttc ccagataata tcctgaaatg ngttttccaa tttgggtcca ttcttccttg   480
gcacttttca gggaccctaa tcaatcgnag gtttggncct tttacatagn cccatanttt   540
ttggagggtt tngtcaattc ntttcaaact ttgg                                     574
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<210> 6446

<211> 552

<212> DNA

<213> Homo sapiens

<400> 6446

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aaaaccaaaa gaacaacttt aataagcttt tacggcactg caattacagg aacatcgacc   60
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tacaagtaac agcaacacat tccatttcta ctgaagaaaa caaatgcgat ttaactttca   180
ggttagaaaa cgtatcttct tactgcaatc tcaagtagca tttagaaagt ttagttttcc   240
cttttctaac ctctaaaaga tgatatgatt tttaatgcaa tcatacacia ctgttttcac   300
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attggaata atcacgagga atcaataggt ttaggctaac tgactgattg gttttatttc 360
cattgntaat ttcaagaggg ctctgcagt attgtggatt tcagatgggg aaaataatca 420
gaccaggagt aaacggcctt ggtctttaa gtgggggang gaacatgcag cggcacacgg 480
ggcangtgcc tgacttttgg aagcccgatg gccacacacg gnttgnggna atagtgggtg 540
cacggaantt na 552

<210> 6447

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6447

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atcctcctgt cttggcctcc caaaatgcta tgattatggc tgtgagacac tgcacccggc 120
aagggaaagt actttattat tattttttcc agtgggaggg tttggtcagg cagggagcgg 180
ctgagaaagt attttaaagc aatgtttgtt cttagttgac ttcagtgtca acaaaaatct 240
aaaaaaaaaa aaaggaaaaa aaagttttga cttaactggg gcaaaatgag taacactagc 300
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actaccagga agagctccag gatagangga gctttggcat atcactagat gctnaaatc 480
ggactgggtg ctnaaatitg nggccaactt ttttctttc cttttttttt ttttttttgg 540
naaacaanc cctnttt 552

<210> 6448

<211> 563

<212> DNA

<213> Homo sapiens

<400> 6448

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 gccaatgtgt ttctgaatat gcacatgtat atgatatctt taacaatgta taaaataaat 180
 gttgtacatc ataaatagag ttctgtaact aactagcttc cataactaac tagctgtgga 240
 aactctatgg agttgtctat attcctggct tcaaattcac cagctgtaat tgagaacttt 300
 ggattaattg atctctaaat ctattcctgt ttgaagagcc catgatgtta gtgcatgcgt 360
 ggattatgtg gtttcatctg aataattgaa taaaagactt aaaagttgag agtataaaaag 420
 gcattttatc ctttaattcat gtagcatttt ttaagttctg agagagcaat tccctctttt 480
 aaatcccaac tgntgntctt ttncanttg aatggggggg ggnaatgggn caaaccttta 540
 atttggcggg caaaaaatan ggc 563

<210> 6449

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6449

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 cagacctctg ctctgggatt gggccaacc ctgtcctttg cagccatgtg gcgacctca 180
 gcatggagct ccttgccact gtcccccaaa ggggctcagt cgtccatctt cacgaagact 240
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 gcatgcccct gtggcctggg ggcatggcaa ggtccggctg gctcttggtg cgggcttngg 480
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<210> 6450

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6450

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tattgtccag tggggcgaat ggtggctgga actaaagaat tgctgtctgg tttctatcca 180
aatccaggta gcgagatata tgaatggact tttcgaatcg tcatgtgaat aacgtctgct 240
cggcataaag gctcagagcc atgctaggaa ggattaactc gtaggctgac cactaacatc 300
ctttgtggta cgagggagaa acattcccaa gtatcatttt attcacactt aattttctat 360
cccatacccc caaaataagg ctagctatct aattagttgg ctgcttttct ctttaatttt 420
agtgtttctg ttgataatgt gtaaagtttg ggaaaatgct aagtagcttt tcacttagaa 480
cactgggtatt ttctctttta aggtttctan cctacattaa tattgcntaa gtaatcttat 540
tgctaaatcc caaagtaana aa 562
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<210> 6451

<211> 536

<212> DNA

<213> Homo sapiens

<400> 6451

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gagtgcagng gcnnggtctc ggctcactgc aaccttagcc tcccgggttc aggcaattct 120
ntngcctnag cctcccgagt agctgggact acaggcgccc gccaccacgc ctggctaatt 180
gtaagccttc tttttaaaca acacactaga cacctccttg ttgacccac tataagcttc 240
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agctactntc cacaacanat ggtgatgtct cattttctcg ngcttagact actaaccaaa 360
aaaaaagtcc taggaagctg gcttttagctt cccattcacc ttcctctatg ggtatgcctt 420
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tgngaacagt ttgttcaacc tcatccaaga catgagcatg gcccaatgna aaattntggc 480
ccanaaaaaat nggtggnttn agaacaaatt ttataattcc aatggctttn gggagg 536

<210> 6452

<211> 565

<212> DNA

<213> Homo sapiens

<400> 6452

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cagcaaaagg taacaagtaa gagactttgg aaaagacaat gcaaaaaaca taaacaagat 120
ctccgaagac tagaaacaga ttcccttaaa gctctctgng cctttatata tcctgaaaaa 180
tcttagngta tagcttggga taggtatacc ccagttttgg aaactactgt agaataaatg 240
gttttctaaa atttataatg gatttaactc atgttaattt taaatgtcta tatagttcac 300
ttactagtat ttctcccat aagaaaaaca ccaaccacac caatataaaa tgtgagaaag 360
aatctgatat gctgctttaa aaaaatcttc ataaatatc cataatttcc catttttgta 420
aattataatc ttttcaacag acttattacc cagtaaccaa actttttact aggatcccca 480
aaagngcccc caattttcct aaggattaat catttcccat tggatgacc tgaagggtng 540
ggtcccttna aaggcttttn tggaa 565

<210> 6453

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6453

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tcggctcact gcaacctctg cctccccac gcaagtgatt cttgtgcccc agcctcccaa 120
gtacctggga ctataagcgc gcgccacat gcccgctaa tttttgtatt tttagtagtg 180

acaggtttca ccatgttggc caggctggtc ttgaactcct ggcctcaggt gatccgcca 240
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 aatcataaaa ttctgggttc ttcaatgttc cccacatat aaacatcaa atgttagtgg 360
 gtaatatatt aatgccttag tagaaagcat gaagggaaga agtgcacct gcctcccatg 420
 tgctggttgc antgctctct tgcagtangg ntaaggccac gacacttaag gcttttaagg 480
 acaacaagg anaaggaaga aggaagaatg ggaagtgggt aagttaatgg ggattggagt 540
 ttaanttggg atgacaaaaa aattttggaa aanantgngg g 581

<210> 6454

<211> 531

<212> DNA

<213> Homo sapiens

<400> 6454

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 aactgnccaa ttcacatcag ttatccgtct gctttttctt gagagcttgt ggaaggngtt 120
 aacgtggctg ggaacatcaa caccttggca tgcataaatg ttaagtcagg aaggccagcg 180
 atcaccttga tagcttcttc acttaggtgc tcttctcttt tcggtttcct actggttagat 240
 gtgcttgtct tctctactgt agacatgagt cttgcaaagt catcactcac tttgaggctt 300
 gaggtggana tttccagctt anaagttgtt aactcataca actccggatc cacacctggg 360
 attgaggtgc tgctgctaga gctactgtca tccacgggcc caaagaaatc aaggttcaga 420
 agagtggaa ctcctacca tctaaagggn tagtannggc nctgntactc antcaactgg 480
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<210> 6455

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6455

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cttcacctnt caggttcaag cgattctcct gcctaacctt ccaagtagct gggattacan 480
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<210> 6456

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6456

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ctgacataca taggcattca accaatattt gatctccaaa gcatgacat tcatgcatcc 180
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gtttttttgg agttttcacc atctctaaga gccctgaaca atttttaatc ctataaggct 480
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<210> 6457

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6457

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tggaactaca ggtgcccggc accacgcctg gctaattttt tgtattttta gtagagacgg  180
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tggggctcaa agcgattctt ctgcttaacc tcttgagaag cctagggatt acaaggcttt  480
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<210> 6458

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6458

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accatgttag tcaggctggt cttgaactcc tgacctcagg tgatccaccc gcctcagcct  240
cctaataaaa tttatcttaa taagataata tgtaatatata agatagagga ctgatgcctg  300
aaattaattt ttgtgtctta aaattctgtg gaagtactgc ttccaaatac gacacatatt  360

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ttactccgta tctctttaga attaataata agtagggaga aatgaggaac aagatagggt 420
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 aggtcttacg ggctccntgan ggcttttttag aaacttttan acttccgagn ggaaaactgg 540
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<210> 6459

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6459

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 gcagggcctt agggctgaga gccagaaaca ctgtcctttt ggagccatg gaagcgagga 180
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 gattctcaca acttcttcaa actcttttgt gcttcagaga aagccaggaa cacngggcaa 480
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<210> 6460

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6460

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 gggagtgttc ctgtctcatg gactctgcaa atcacaatgc ttggcatggc ctcccagccc 180
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 cacctctccc ctggagacag ccccatactc cactcagacc tgtgcacttc ctggtatcct 420
 tgnccactgc tttttatggc tcatttacia acccaaattg ganggacagc aggagctgcc 480
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 nccact 546

<210> 6461

<211> 567

<212> DNA

<213> Homo sapiens

<400> 6461

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 ggggatggac cccatggctg gggtagtacc atgactggag gcgggggagg caaccagagg 180
 cctgctgctt tggggaggtg cattccccca accatgtccc gacacctctg gagttcaggc 240
 aaggaccttc cagtcctact tgcctgcat cttctcaagg ataggcacia tcatgtcaaa 300
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 catattggaa gaggtcagca aagggtacct tccgtgtacc aatttcaca gaagcncttg 480
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<210> 6462

<211> 538

<212> DNA

<213> Homo sapiens

<400> 6462

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attacaggca tgcaccacca catccggcca attttgtatt ttcagtaggg acagaatttc 180
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taacctaaag ctggcacatc cttgccnatt gctcaaaatg caatnaagg caactaaatg 480
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<210> 6463

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6463

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ccaagtagct gggactacag gcacctgcca ccacaccagg ctaattttgt ttttgtat 180
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tccaccaata cagtgaata ccacgaggtc atgaaaatat tagtgaaaga tatgaatatt 420
tgtgatataa aattaaataa aatgtgaaag acaaaattat gtgtaaacta caattgcact 480
atttttacia ggnaccccat gaggattaag acnccgaaga tccatgcaaa aaaaaaanta 540

. cttggttaaa tggnggaaac cgggaatttt tnttt

575

<210> 6464

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6464

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 aacagactct cccctacagc ctcccaaggt ggcactaccc ctactgccat ctcaatttca 240
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 gtactttgtt acagcagcct aagaaactac tacatcactg aaatacaggc tttattcacc 360
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 aggaaaatgt tcaattctgt gacacaggaa ctaaaagctg ttcccgttag gaagtggcag 480
 aatgtacaga gacaggctac ttgcttttgc cacaagttcc aggnntnact tgganccttt 540
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<210> 6465

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6465

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 ctaatttttt tatttttttg tagagacggg gtttcacat gttggccagg ctggtctcga 180
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 tgatgtattc acgacgggta aaataattta acatgcttaa tgnatggatt aacttgggca 480
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<210> 6466

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6466

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 agaattctgn gatgtccagt agaagtatgt aataaaaaca ttgcatatgg ttctaggggg 480
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<210> 6467

<211> 579

<212> DNA

<213> Homo sapiens

<400> 6467

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taacaatata acaatgaagc tgtctgtact ttcatttaac aacacactta aggcaaatgt 180
tgaattaata taaaaataat atgtggtaaa ctgatacttg acatgataca ataaaattaa 240
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atttattttc acaaaaggct catctaactt caaactatag gggtttttaa aattctagga 480
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<210> 6468

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6468

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atttagactt aacaggtggg tttctatcaa ggggnnttac catcctaaaa ttataagttt 540
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<210> 6469

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6469

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ttcatatttc actaggaaga ttataaactt atctgaaatg gcagaaattc attttgcttt  180
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caacttgatg cctcgttatc ttctccatct tccaaacccc anggcagtaa atttaaggag  480
caaggtggna aaagccncta anaaagccan ggcaggataa aaaccttttt gagggngnaa  540
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<211> 497

<212> DNA

<213> Homo sapiens

<400> 6470

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ctttccaaga agtcagaggt cagaaagctg gtaaccgtcg taaaagacc cgtnttgaca 420
gcatgtgtag anctgnttct tccatggggn taccttgga canggtcaca agcagncccc 480
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<210> 6471

<211> 510

<212> DNA

<213> Homo sapiens

<400> 6471

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<210> 6472

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6472

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gaccctgtcc ctgcatcttc agtcgtctct actgccacat gccctgtcca caccaggatg 180

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<210> 6473

<211> 604

<212> DNA

<213> Homo sapiens

<400> 6473

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 aacaacagtt tttttcaacc ctttccccct ctttccccct cccagtagtc cccagtgtct 180
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 tccctacatt tgccactatt attggtatta tcattaataa ataaactgna taatggttaa 540
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<210> 6474

<211> 600

<212> DNA

<213> Homo sapiens

<400> 6474

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ccatgctgcc caggctggtc tcaaattcct ggcctcaagt gatcctcctg cctcagcctc 240
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caattaaaga atgacagaga tgatttgtga actcangctg gcttgaccct aaaccctggg 540
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<210> 6475

<211> 577

<212> DNA

<213> Homo sapiens

<400> 6475

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tgtgcatgg tggtttgctg caccattac cacattttct ttatccagng tatcattgat 480
ggcatttggg ttggttccac aanccttgct attacaaatg ggctgcaata aacatcatgn 540

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577

<210> 6476

<211> 572

<212> DNA

<213> Homo sapiens

<400> 6476

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<210> 6477

<211> 598

<212> DNA

<213> Homo sapiens

<400> 6477

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<210> 6478

<211> 354

<212> DNA

<213> Homo sapiens

<400> 6478

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<211> 589

<212> DNA

<213> Homo sapiens

<400> 6479

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<211> 586

<212> DNA

<213> Homo sapiens

<400> 6480

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<210> 6481

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6481

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<210> 6482

<211> 537

<212> DNA

<213> Homo sapiens

<400> 6482

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<210> 6483

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6483

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acaggcaact gccacatgc ccagctaatt ttttgatatt ttagtagaga tgggggtttcg 180
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<210> 6484

<211> 550

<212> DNA

<213> Homo sapiens

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<210> 6485

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6485

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<210> 6486

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6486

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<210> 6487

<211> 618

<212> DNA

<213> Homo sapiens

<400> 6487

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tgatgggtag ttagaggctc attgggctat tctctctact ttgtcaaaa tccactataa 540
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<210> 6488

<211> 617

<212> DNA

<213> Homo sapiens

<400> 6488

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atttgctgag aaaacagtga ggaaagggtg gctgaaacat ttggaatgcc ttatatcaaa  540
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<210> 6489

<211> 617

<212> DNA

<213> Homo sapiens

<400> 6489

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<210> 6490

<211> 612

<212> DNA

<213> Homo sapiens

<400> 6490

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tctgcagaaa tgtttgaatt tctcaaactc aatccaaagc cattgcctga acagcttcct 540
atgtcagaga ctaagcncag atgggttcca tcaaccacac gtgaccataa tgnntttcac 600
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<210> 6491

<211> 608

<212> DNA

<213> Homo sapiens

<400> 6491

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<210> 6492

<211> 553

<212> DNA

<213> Homo sapiens

<400> 6492

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gtttgagctc gtttccagca gggaagatga gtttcagttt tttcctgctt tgtttttggt	180
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<211> 556

<212> DNA

<213> Homo sapiens

<400> 6493

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gtgtggccca cggagcttga acctggtgaa gacagcaagt aagccacagc tcaagagttc  240
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cacacatcat attcacacac tcaagccatg ctcttgattt cagggtctta ttgcangctc  480
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<210> 6494

<211> 552

<212> DNA

<213> Homo sapiens

<400> 6494

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<211> 558

<212> DNA

<213> Homo sapiens

<400> 6495

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<210> 6496

<211> 556

<212> DNA

<213> Homo sapiens

<400> 6496

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<210> 6497

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6497

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 ccagaatttg tttgctgaat ccacattttg cttcctgttt ggttcctttc ataaagagca 480
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<210> 6498

<211> 567

<212> DNA

<213> Homo sapiens

<400> 6498

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ataaaagaac tagctctttg ctaactgtgc ataagaaata atttttccc cagaaatcag   180
aatgaagac aagtgccaca catcattgat cgccccaaca tggattttcg cacaaaagaa   240
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<210> 6499

<211> 555

<212> DNA

<213> Homo sapiens

<400> 6499

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attttcctgg tccaaattga actcctcttt ctctaagctt gtacagactg tattctgtcc   300
aaataaatta ccaataaatt aggtattgct ttatattact gattaattca tccatagata   360
ttattagatt ttaatcctag tctctcctac gagatagtta agattctttc acagctccag   420

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tccatctccc atgcaaatta aattaacaaa tgcatacagt atatacatct gttcacttga 480
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ctccgcaaaa caaat 555

<210> 6500

<211> 554

<212> DNA

<213> Homo sapiens

<400> 6500

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agggacggcg ggcgggggcc gggccagcaa gcccagacagt cacttttgcc aatacctggg 480
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nggccttggt ggtt 554

<210> 6501

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6501

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 acacgcacag agaataaaaa gtgtaacagg ctttagtgaa caagggttcc aggcaatttc 420
 tatgaaggcc caatacctac aataacctag taacagcaga tccaatgttc acagaaaaac 480
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<210> 6502

<211> 412

<212> DNA

<213> Homo sapiens

<400> 6502

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 taactaattt ttggccttct tgattttata tcaatatatt catggctttt aactgctccc 180
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 agtagttttc tattcccaa cacaatgcat tctacttgtc ttctaactct tgatttcttt 300
 ctttttttgg cattgtggtc agagaatatt tgtataaatg attatgatta tttggatttc 360
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<210> 6503

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6503

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 gttttttaat gatgaaatcc aattgtaatt aatctatagg gaaagcaatt caagaaaatt 180
 cgggatactt aaatgttcag cctttttaga tgtgcaagag gactcctatg agacactttt 240
 cagtatatga aatattacta taacccttga atgatttaca tgcaaggatt tattttattt 300
 gggacagact aaattgcctg aagataatgc catggcttct cccagtgate cctgagtttc 360
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<210> 6504

<211> 552

<212> DNA

<213> Homo sapiens

<400> 6504

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 gttggtcagg ctggtctcga actcctgacc tcaggatgac cgctgcctc ggcctcccaa 360
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 ttattcctca gaggcagata tgaattttgg acaaagtttt ggccaatttt ggatgtaact 480
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<210> 6505

<211> 558

<212> DNA

<213> Homo sapiens

<400> 6505

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gttctgcatg aacatctaag acaggcttct ggcctgactt tttggtggat ggtggtaaac 180
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gtgaggcatc cacaggcctt ccagctgcaa gttggtgggt gctttgctaa aagggactgt 480
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gaacaggngg ntaanttt 558
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<210> 6506

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6506

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aatcaaactc atcccgaccc agggaaacaca gccactcca gggccaaacc tgcagagtcc 180
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gcctttgcc a cggtgcgga aggagcccgt tggccagagt gtgtggacat caacgttacg 360
cgaatggctg tgcgtgccaa tggctggtat aaggaacttt taaagtcctc aggttaaatg 420
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aaaaactctt gtggagctct tcaactgcacg atcttgggtat ggtttctacc ctggttaagg 480
tctacctttt cccatttccc cacatttctt tacatcgctt ttatttactt caattgcaaa 540
tcccganctg gtttggtant tt 562

<210> 6507

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6507

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attatcctgc ctcagcctcc tgagtagctg ggagtagagg cacactccat cacgcccagc 180
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taccacagca cttnaaggct ggattaaaaa agggctgctt ttnaagggtg gnaccctttt 540
aaaggggggn tttncaatcn aa 562

<210> 6508

<211> 563

<212> DNA

<213> Homo sapiens

<400> 6508

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accattaatt gttactggag aaaccctcct tctgggggtt ttgcacgatt attcataaga 180
 aggtggaaag aagtgttagt gtaagcatgt tttgagtgtt cttctgggtg cacatgtgca 240
 ctaactgtac atatttgtgc atacattgca tgtctcgtta gcatcttaag tctccaccta 300
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 atgcacatgt tctctagaag taaaagtccc tactgaagat agcgggtttc aaacgacccc 420
 aagtgtcca catcttaa atgtcgctnca caaagctgga cactatctgc tntgaggga 480
 tccggtccca tttgggggtt tgagacctgc aagtcaggag tgacttgaga tganaccgtg 540
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<210> 6509

<211> 553

<212> DNA

<213> Homo sapiens

<400> 6509

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 tccatcctta gatcccttga agagaccatt tagttaagac taccaacagg tgacaccctg 180
 acctccttac caaccttgcc ttttagaggt gaccagagac ctgtgctttt ccaaagtact 240
 gttatacgtg taattagtat aatatcaatg tggggaaact ctacctttgg attttgagga 300
 ctctgctttt cttgaaacct tctgggttag agactgttta ttcatatgca cctcagggaac 360
 ttgaggccaa gatgaagttc actgtttcct agtcctttgc ttgntctcct ggccattatg 420
 tttccacctt cattcaaaag cttctctttt ggaagctgnt tataaccag caacaccatc 480
 aactcactgg gctactggcc tcaatcccat ttncagcac tttccctttt catgcaaatn 540
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<210> 6510

<211> 496

<212> DNA

<213> Homo sapiens

<400> 6510

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gtcggatgga ngcgt naggt gtcagatgct gagcccatcg ntggtcnaac tngcaaggt 480
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<210> 6511

<211> 542

<212> DNA

<213> Homo sapiens

<400> 6511

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tcttttcctg acctaat taa tcttttaaga tattaggtcc cctaaagtcc aaaaatgaca 180
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aattttggca tccatggaca atggtggctt ggttgggcct tttanggggt ctatatcact 480
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gg 542

<210> 6512

<211> 528

<212> DNA

<213> Homo sapiens

<400> 6512

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tacaggcatg taccaccatg cctggctaata tttgtgtgtg tgtgtgtgtg tgtgtgtgtg  180
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gtcattttcc agatggaact atgttaattt ggcatgtcaa caaacaagac cataagtaga  420
tccatcatgt tggaggattt taatgacatt taggatattc ttgccacaat aacatgcann  480
cagggcattt nctacanggn tctattatgg cnatgaataa actctgna                    528
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<210> 6513

<211> 553

<212> DNA

<213> Homo sapiens

<400> 6513

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aaattccaaa agaaacataa aaaaaaaaaa ccaataattc ccccaaaaaa caaacccaaa  120
gtctggcttt tccttccctc aagattgtct ggttgaggcc ttggtttccc ttgaaggctt  180
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gcctctccct cttctctccc taacaaacac ttctctatcc tgggggggtga gtacagtaca  300
cttggcgggg tgggcggggg gtgtgctggg gactgggagg ccggtgaagc cgggtgctaga  360
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cactataatc taacaggaaa taaaaaataa tattctgcac gtcagaatgt ttttttttta 420
 taattcatag ctatittttca cagtttttaa aagttatata tatattnaaa tatattaacc 480
 ttatataint aattaaaagg tgactccntt aaaggntatg atcagggccg ggccagtnnt 540
 tggacaataa acn 553

<210> 6514

<211> 500

<212> DNA

<213> Homo sapiens

<400> 6514

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<210> 6515

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6515

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actaatgata gaaaataact aatgaaaaaa aatcagagac tggtttccaa ttgattgaca 180
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 aaatatttca tcttatttaa tgggtcatga cttcagtgaa actccctttg caatgcaata 480
 aattttaaac accaaccttt attcttaacg gttttagcca ccgnttttgn gagagaaaac 540
 tccttccaac a 551

<210> 6516

<211> 548

<212> DNA

<213> Homo sapiens

<400> 6516

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 cactaactgt gaacatttga gcaaattatt taccctctct cggcctcagc tttcacatct 420
 ataaaatgag agcacaaatt attcacagct tttgaaaagt tactgntgag aatattacng 480
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 nggttggg 548

<210> 6517

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6517

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aanctttttt 550
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<210> 6518

<211> 523

<212> DNA

<213> Homo sapiens

<400> 6518

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gggtgcattt gggttcagcta gataccaagg ctgaanagtg ccttctttnc aatgatccat 480
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<210> 6519

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6519

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tcggtgtgaa aagcttgaga atgtcccagt tgggaagggtg gggtgagggg gaggagggcg  180
ttgaagaggg agaccctggc ttccccgcag tctgaacccc caaatcccct cctccacct  240
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t                                                                 541
    
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<210> 6520

<211> 548

<212> DNA

<213> Homo sapiens

<400> 6520

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aaacatacat tttcccaatc atgcttttaa acggcatcct ttaaaaaaac aagttatata  300
    
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tacagatatac accccaaaat gaatctttta cagtctacta ctataaattt aaggcatcct 360
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 gtccagaaat ttncaataat ttncaaangg gatcagttag aggaaattta aaaaggggat 480
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<210> 6521

<211> 532

<212> DNA

<213> Homo sapiens

<400> 6521

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 tcagaagctc ttttccagc actggaggca ggctgctgtg aagctgcca ggggtccgag 180
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 aaaaccatgc tctttctttt ttgggaattt aactggggcc ctttgnttt ctttcaaggg 480
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<210> 6522

<211> 540

<212> DNA

<213> Homo sapiens

<400> 6522

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